

# SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 1 of 180

## TEST REPORT

**Application No.:** SUCR2501000024IT  
**Applicant:** Shanghai Sunmi Technology Co.,Ltd.  
**Address of Applicant:** Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China  
**Manufacturer:** Shanghai Sunmi Technology Co.,Ltd.  
**Address of Manufacturer:** Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China  
**EUT Description:** Wireless Data Terminal  
**Model No.:** TF31A  
**Trade Mark:** SUNMI  
**FCC ID:** 2AH25M3W  
**Standards:** FCC 47 CFR Part 2, Subpart J  
FCC 47 CFR Part 15, Subpart C  
**Date of Receipt:** January 9, 2025  
**Date of Test:** January 20, 2025 to March 14, 2025  
**Date of Issue:** May 27, 2025, Amendment 02: June 9, 2025

|                      |               |
|----------------------|---------------|
| <b>Test Result :</b> | <b>PASS *</b> |
|----------------------|---------------|

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.  
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone:(86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)**

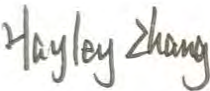


SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 2 of 180

Version

| Revision Record                                                                                                          |             |              |             |
|--------------------------------------------------------------------------------------------------------------------------|-------------|--------------|-------------|
| Version                                                                                                                  | Description | Date         | Remark      |
| 01                                                                                                                       | Original    | May 27, 2025 | /           |
| 02                                                                                                                       | Updated     | June 9, 2025 | PAG Comment |
| This report supersedes our previous report SUCR250100002403, issued on 2025/05/27, which is hereby deemed null and void. |             |              |             |

|                          |  |                                                                                     |  |  |
|--------------------------|--|-------------------------------------------------------------------------------------|--|--|
| Authorized for issue by: |  |                                                                                     |  |  |
| Tested By                |  |    |  |  |
|                          |  | Hayley ZhangProject Manager                                                         |  |  |
| Approved By              |  |  |  |  |
|                          |  | Cloud Peng/Technical Manager                                                        |  |  |



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 3 of 180

## Contents

|                                                               |           |
|---------------------------------------------------------------|-----------|
| <b>Version</b>                                                | <b>2</b>  |
| <b>1 Test Summary</b>                                         | <b>4</b>  |
| <b>2 General Information</b>                                  | <b>5</b>  |
| 2.1 Details of Client                                         | 5         |
| 2.2 Test Location                                             | 5         |
| 2.3 Test Facility                                             | 5         |
| 2.4 General Description of EUT                                | 6         |
| 2.5 Test Environment and Mode                                 | 8         |
| 2.6 Description of Support Units                              | 8         |
| 2.7 Worst-case configuration and mode                         | 8         |
| <b>3 Equipment List</b>                                       | <b>9</b>  |
| <b>4 Measurement Uncertainty (95% confidence levels, k=2)</b> | <b>11</b> |
| <b>5 Test results and Measurement Data</b>                    | <b>12</b> |
| 5.1 Antenna Requirement                                       | 12        |
| 5.2 AC Power Line Conducted Emissions                         | 14        |
| 5.3 Duty Cycle                                                | 18        |
| 5.4 Conducted Output Power                                    | 19        |
| 5.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth             | 20        |
| 5.6 Power Spectral Density                                    | 21        |
| 5.7 Band-edge for RF Conducted Emissions                      | 22        |
| 5.8 RF Conducted Spurious Emissions                           | 23        |
| 5.9 Radiated Spurious Emissions                               | 24        |
| 5.10 Restricted bands around fundamental frequency            | 27        |
| <b>6 Photographs - Setup Photos</b>                           | <b>29</b> |
| <b>7 Appendix</b>                                             | <b>30</b> |



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 4 of 180

### 1 Test Summary

| Test Item                                                               | FCC Rule No.            | Test Method                                          | Test Result | Result                   |
|-------------------------------------------------------------------------|-------------------------|------------------------------------------------------|-------------|--------------------------|
| Antenna Requirement                                                     | 15.203/15.247(b)        | --                                                   | Clause 3.1  | PASS                     |
| AC Power Line<br>Conducted Emission                                     | 15.207                  | ANSI C63.10 2013<br>Section 6.2                      | Clause 3.2  | PASS                     |
| Duty Cycle                                                              | --                      | ANSI C63.10 2013<br>Section 11.6                     | Clause 3.3  | For<br>Report<br>Purpose |
| Conducted Output Power                                                  | 15.247 (b)(3)           | ANSI C63.10 2013<br>Section 11.9.1.3                 | Clause 3.4  | PASS                     |
| DTS (6 dB) Bandwidth & 99%<br>Occupied Bandwidth                        | 15.247 (a)(2)           | ANSI C63.10 2013<br>Section 11.8 Option<br>2 / 6.9.3 | Clause 3.5  | PASS                     |
| Power Spectral Density                                                  | 15.247 (e)              | ANSI C63.10 2013<br>Section 11.10.2                  | Clause 3.6  | PASS                     |
| Band-edge for RF<br>Conducted Emissions                                 | 15.247(d)               | ANSI C63.10 2013<br>Section 11.11                    | Clause 3.7  | PASS                     |
| RF Conducted Spurious<br>Emissions                                      | 15.247(d)               | ANSI C63.10 2013<br>Section 11.11                    | Clause 3.8  | PASS                     |
| Radiated Spurious Emissions                                             | 15.247(d);15.205/15.209 | ANSI C63.10 2013<br>Section 11.12                    | Clause 3.9  | PASS                     |
| Restricted bands around<br>fundamental frequency (Radiated<br>Emission) | 15.247(d);15.205/15.209 | ANSI C63.10 2013<br>Section 11.12                    | Clause 3.10 | PASS                     |



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 5 of 180

## 2 General Information

### 2.1 Details of Client

|                          |                                                              |
|--------------------------|--------------------------------------------------------------|
| Applicant:               | Shanghai Sunmi Technology Co.,Ltd.                           |
| Address of Applicant:    | Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China |
| Manufacturer:            | Shanghai Sunmi Technology Co.,Ltd.                           |
| Address of Manufacturer: | Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China |

### 2.2 Test Location

|                |                                                                                                                        |
|----------------|------------------------------------------------------------------------------------------------------------------------|
| Company:       | SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.                                                               |
| Address:       | South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone |
| Post code:     | 215000                                                                                                                 |
| Test engineer: | Ives Cheng, King-p Li                                                                                                  |

### 2.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 6 of 180

### 2.4 General Description of EUT

|                                                                                                                                                                                                                                                                        |                                                                                                      |                                                        |                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------|
| EUT Description:                                                                                                                                                                                                                                                       | Wireless Data Terminal                                                                               |                                                        |                    |
| Model No.:                                                                                                                                                                                                                                                             | TF31A                                                                                                |                                                        |                    |
| Trade Mark:                                                                                                                                                                                                                                                            | SUNMI                                                                                                |                                                        |                    |
| Hardware Version:                                                                                                                                                                                                                                                      | V1.2                                                                                                 |                                                        |                    |
| Software Version:                                                                                                                                                                                                                                                      | T602AA_EVT_14.0_SUNMI_202503131820.00-00                                                             |                                                        |                    |
| Power Supply:                                                                                                                                                                                                                                                          | 3.87V from battery                                                                                   |                                                        |                    |
| Operation Frequency:                                                                                                                                                                                                                                                   | 802.11b/g/n(HT20)/ax(HE20):                                                                          |                                                        | 2412MHz to 2462MHz |
| Modulation Type:                                                                                                                                                                                                                                                       | 802.11b:                                                                                             | DSSS (DBPSK, DQPSK, CCK)                               |                    |
|                                                                                                                                                                                                                                                                        | 802.11g/n:                                                                                           | OFDM (BPSK, QPSK, 16QAM, 64QAM)                        |                    |
|                                                                                                                                                                                                                                                                        | 802.11ax:                                                                                            | OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) |                    |
| Number of Channels:                                                                                                                                                                                                                                                    | 802.11b/g/n(HT20)/ax(HE20): 11                                                                       |                                                        |                    |
| Channel Spacing:                                                                                                                                                                                                                                                       | 5MHz                                                                                                 |                                                        |                    |
| Smart System:                                                                                                                                                                                                                                                          | <input checked="" type="checkbox"/> SISO                                                             | 802.11b/g                                              |                    |
|                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> MIMO                                                             | 802.11n/ax: 2Tx & 2Rx                                  |                    |
| Antenna Type:                                                                                                                                                                                                                                                          | FPC Antenna                                                                                          |                                                        |                    |
| Antenna Gain:                                                                                                                                                                                                                                                          | 3.1dBi(Ant3); -1.74dBi(Ant2)                                                                         |                                                        |                    |
|                                                                                                                                                                                                                                                                        | Note:<br>The antenna gain are derived from the gain information report provided by the manufacturer. |                                                        |                    |
| RF Cable:                                                                                                                                                                                                                                                              | 1dB                                                                                                  |                                                        |                    |
| Remark:<br>1.As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.<br>2.The device does not support 802.11ax OFDMA Partial RU tones (26T, 52T, 106T, etc.) |                                                                                                      |                                                        |                    |



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 7 of 180

| Operation Frequency of each channel (802.11b/g/n HT20 /ax HE20)                                                                                                                                                                                      |           |                                              |           |         |           |         |           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------|-----------|---------|-----------|---------|-----------|
| Channel                                                                                                                                                                                                                                              | Frequency | Channel                                      | Frequency | Channel | Frequency | Channel | Frequency |
| 1                                                                                                                                                                                                                                                    | 2412MHz   | 4                                            | 2427MHz   | 7       | 2442MHz   | 10      | 2457MHz   |
| 2                                                                                                                                                                                                                                                    | 2417MHz   | 5                                            | 2432MHz   | 8       | 2447MHz   | 11      | 2462MHz   |
| 3                                                                                                                                                                                                                                                    | 2422MHz   | 6                                            | 2437MHz   | 9       | 2452MHz   |         |           |
| <b>Remark:</b><br>In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below: |           |                                              |           |         |           |         |           |
| Channel                                                                                                                                                                                                                                              |           | Frequency for 802.11 b/g/n (HT20) /ax (HE20) |           |         |           |         |           |
| The Lowest channel                                                                                                                                                                                                                                   |           | 2412MHz                                      |           |         |           |         |           |
| The Middle channel                                                                                                                                                                                                                                   |           | 2437MHz                                      |           |         |           |         |           |
| The Highest channel                                                                                                                                                                                                                                  |           | 2462MHz                                      |           |         |           |         |           |



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 8 of 180

### 2.5 Test Environment and Mode

| Environment Parameter                                   | 101 kPa Selected Values During Tests |            |
|---------------------------------------------------------|--------------------------------------|------------|
| Relative Humidity                                       | 44-46 % RH Ambient                   |            |
| Value                                                   | Temperature(°C)                      | Voltage(V) |
| NTNV                                                    | 22~23                                | 3.87       |
| Remark:<br>NV: Normal Voltage<br>NT: Normal Temperature |                                      |            |

### 2.6 Description of Support Units

The EUT has been tested as an independent unit.

### 2.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

| Modulation Type  | SISO - Data Rate | CDD/MIMO - Data Rate |
|------------------|------------------|----------------------|
| 802.11b          | 1 Mbps           | /                    |
| 802.11g          | 6 Mbps           | /                    |
| 802.11n (HT 20)  | /                | MCS0 (13 Mbps)       |
| 802.11ax (HE 20) | /                | MCS0 (16 Mbps)       |



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 9 of 180

### 3 Equipment List

| RF Test Equipment                   |               |                                  |               |                           |                              |
|-------------------------------------|---------------|----------------------------------|---------------|---------------------------|------------------------------|
| Test Equipment                      | Manufacturer  | Model No.                        | Inventory No. | Cal. date<br>(yyyy/mm/dd) | Cal.Due date<br>(yyyy/mm/dd) |
| Shielding Room                      | Brilliant-emc | N/A                              | SUWI-04-08-01 | 2022/11/09                | 2025/11/08                   |
| Temperature and humidity meter      | MingGao       | TH101B                           | SUWI-01-01-07 | 2024/02/18                | 2025/02/17                   |
|                                     |               |                                  |               | 2025/02/13                | 2026/02/12                   |
| Measurement Software                | Tonscend      | TST272 V2.0                      | SUWI-03-55-03 | NCR                       | NCR                          |
| Signal Analyzer                     | ROHDE&SCHWARZ | FSW43                            | SUWI-01-02-04 | 2024/05/08                | 2025/05/07                   |
| Temperature Chamber                 | ESPEC         | SU-242                           | SUWI-01-13-02 | 2024/05/09                | 2025/05/08                   |
| Wideband Radio Communication Tester | ROHDE&SCHWARZ | CMW500                           | SUWI-01-16-05 | 2024/02/04                | 2025/02/03                   |
|                                     |               |                                  |               | 2025/01/21                | 2026/01/20                   |
| DC Power Supply                     | HYELEC        | HY3005B                          | SUWI-01-18-01 | 2024/02/04                | 2025/02/03                   |
|                                     |               |                                  |               | 2025/01/15                | 2026/01/14                   |
| Power meter                         | Anritsu       | ML2495A                          | SUWI-01-31-01 | 2024/11/19                | 2025/11/18                   |
| Pulse power sensor                  | Anritsu       | MA2411B                          | SUWI-01-32-01 | 2024/11/19                | 2025/11/18                   |
| MXG Vector signal genitor           | KEYSIGHT      | N5182B                           | SUWI-01-38-01 | 2024/02/04                | 2025/02/03                   |
|                                     |               |                                  |               | 2025/01/15                | 2026/01/14                   |
| Router                              | ASUS          | GT-AXE11000(FCC ID MSQ-RTAXJF00) | SUWI-03-14-02 | NCR                       | NCR                          |
| Signal Analyzer                     | KEYSIGHT      | N9020A                           | SUWI-01-02-07 | 2024/11/19                | 2025/11/18                   |

| CE Test System                  |               |                 |               |                           |                              |
|---------------------------------|---------------|-----------------|---------------|---------------------------|------------------------------|
| Test Equipment                  | Manufacturer  | Model No.       | Inventory No. | Cal. date<br>(yyyy/mm/dd) | Cal.Due date<br>(yyyy/mm/dd) |
| Test receiver                   | ROHDE&SCHWARZ | ESR7            | SUWI-01-10-01 | 2025/01/15                | 2026/01/14                   |
| Temperature and humidity meter* | MingGao       | TH101B          | SUWI-01-01-06 | 2025/02/13                | 2026/02/12                   |
| Artificial network              | ROHDE&SCHWARZ | ENV216          | SUWI-01-19-03 | 2024/05/06                | 2025/05/05                   |
| Artificial network              | ROHDE&SCHWARZ | ENV216          | SUWI-01-19-04 | 2024/05/06                | 2025/05/05                   |
| Measurement Software            | Tonscend      | JS32-CE 4.0.0.2 | SUWI-02-09-05 | NCR                       | NCR                          |

\*Note:The CE was tested from 2025/03/02 to 2025/03/10.



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 10 of 180

| RSE Test Equipment              |                            |                  |               |                           |                              |
|---------------------------------|----------------------------|------------------|---------------|---------------------------|------------------------------|
| Test Equipment                  | Manufacturer               | Model No.        | Inventory No. | Cal. date<br>(yyyy/mm/dd) | Cal.Due date<br>(yyyy/mm/dd) |
| Semi-Anechoic Chamber           | Brilliant-emc              | N/A              | SUWI-04-02-01 | 2023/06/03                | 2026/06/02                   |
| Temperature and humidity meter* | MingGao                    | TH101B           | SUWI-01-01-05 | 2025/02/13                | 2026/02/12                   |
| Signal Analyzer                 | ROHDE &SCHWARZ             | FSW43            | SUWI-01-02-04 | 2024/05/08                | 2025/05/07                   |
| Signal Analyzer                 | KEYSIGHT                   | N9020A           | SUWI-01-02-07 | 2024/11/21                | 2025/11/20                   |
| Test receiver*                  | ROHDE &SCHWARZ             | ESR7             | SUWI-01-10-01 | 2025/01/15                | 2026/01/14                   |
| Receiving antenna               | SCHWRZBECK MESS-ELEKTRONIK | VULB 9168        | SUWI-01-11-04 | 2023/11/25                | 2025/11/24                   |
| Receiving antenna               | SCHWRZBECK MESS-ELEKTRONIK | BBHA 9120D       | SUWI-01-11-02 | 2023/05/13                | 2025/05/12                   |
| Receiving antenna               | SCHWRZBECK MESS-ELEKTRONIK | BBHA 9170        | SUWI-01-11-03 | 2023/05/12                | 2025/05/11                   |
| Active Loop Antenna             | SCHWRZBECK MESS-ELEKTRONIK | FMZB 1519B       | SUWI-01-21-01 | 2023/05/13                | 2025/05/12                   |
| Amplifier*                      | Tonscend                   | TAP9K3G40        | SUWI-01-14-01 | 2025/01/16                | 2026/01/15                   |
| Amplifier*                      | Tonscend                   | TAP01018050      | SUWI-01-14-02 | 2025/01/16                | 2026/01/15                   |
| Amplifier*                      | Tonscend                   | TAP18040048      | SUWI-01-14-03 | 2025/01/20                | 2026/01/19                   |
| Measurement Software            | Tonscend                   | JS32-RE V4.0.0.0 | SUWI-02-09-04 | NCR                       | NCR                          |

\*Note:The RSE was tested from 2025/03/02 to 2025/03/10.

Remark: NCR=No Calibration Requirement.



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 11 of 180

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

| No.                                                                                                                                                                                                                                                                                                                                             | Item                          | Measurement Uncertainty    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------|
| 1                                                                                                                                                                                                                                                                                                                                               | Total RF power, conducted     | ±0.54dB                    |
| 2                                                                                                                                                                                                                                                                                                                                               | RF power density, conducted   | ±1.03dB                    |
| 3                                                                                                                                                                                                                                                                                                                                               | Spurious emissions, conducted | ±0.54dB                    |
| 4                                                                                                                                                                                                                                                                                                                                               | Radio Frequency               | 1%                         |
| 5                                                                                                                                                                                                                                                                                                                                               | Duty Cycle                    | ±0.37%                     |
| 6                                                                                                                                                                                                                                                                                                                                               | Occupied Bandwidth            | 1%                         |
| 7                                                                                                                                                                                                                                                                                                                                               | Conduction Emission           | ± 2.90dB (150kHz to 30MHz) |
| 8                                                                                                                                                                                                                                                                                                                                               | Radiated Emission             | ± 3.13dB (9k -30MHz)       |
|                                                                                                                                                                                                                                                                                                                                                 |                               | ± 4.8dB (30M -1GHz)        |
|                                                                                                                                                                                                                                                                                                                                                 |                               | ± 4.8dB (1GHz to 18GHz)    |
|                                                                                                                                                                                                                                                                                                                                                 |                               | ± 4.80dB (Above 18GHz)     |
| Remark:<br>The U <sub>lab</sub> (lab Uncertainty) is less than U <sub>cispr/ETSI</sub> (CISPR/ETSI Uncertainty), so the test results<br>– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;<br>– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. |                               |                            |



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 12 of 180

## 5 Test results and Measurement Data

### 5.1 Antenna Requirement

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 47 CFR Part 15C Section 15.203 /247(b) |
| <p>15.203 requirement:<br/>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement:<br/>The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> |                                        |
| <p>The antenna is FPC Antenna and no consideration of replacement. The best case gain of the antenna is 3.1dBi(Ant3); -1.74dBi(Ant2).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |
| <p><i>Note:</i><br/><i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:</i><br/><i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 13 of 180

### Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain,  $G_{ANT}$ , Directional gain =  $G_{ANT}$  + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,  
 $Array\ Gain = 10 \log(N_{ANT}/N_{SS} = 1) \text{ dB}$ .
- For power measurements on IEEE 802.11 devices:  
 $Array\ Gain = 0 \text{ dB}$  (i.e., no array gain) for  $N_{ANT} \leq 4$ ;

For power, the directional gain may be calculated by using the formulas applicable to equal gain antennas with  $G_{ANT}$  set equal to the gain of the antenna having the highest gain.

For PSD, the directional gain calculation is following F2)f)ii) of KDB 662911 D01 v02r01.

### The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.

The EUT supports CDD System.

All antennas have the Unequal antenna gain:

| ANT Gain0<br>(dBi) | ANT Gain1<br>(dBi) | Power DG<br>(dBi) | PSD DG<br>(dBi) | Power Limit<br>Reduction(dB) | PSD Limit<br>Reduction(dB) |
|--------------------|--------------------|-------------------|-----------------|------------------------------|----------------------------|
| 3.1                | -1.74              | 3.1               | 4.02            | 0                            | 0                          |

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

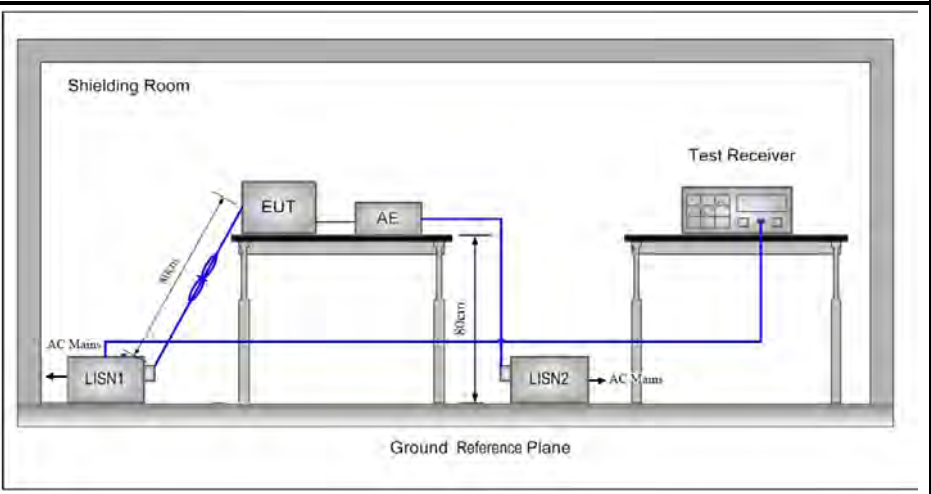
Page: 14 of 180

### 5.2 AC Power Line Conducted Emissions

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |           |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|
| Test Requirement:                                | 47 CFR Part 15C Section 15.207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |           |
| Test Method:                                     | ANSI C63.10: 2013 Section 6.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |           |
| Test Frequency Range:                            | 150kHz to 30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |           |
| Receiver Setup:                                  | RBW = 9kHz, VBW = 30kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |           |
| Limit:                                           | Frequency range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Limit (dBuV) |           |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Quasi-peak   | Average   |
|                                                  | 0.15-0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 66 to 56*    | 56 to 46* |
|                                                  | 0.5-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 56           | 46        |
|                                                  | 5-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 60           | 50        |
| * Decreases with the logarithm of the frequency. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |           |
| Test Procedure:                                  | <p>1) The mains terminal disturbance voltage test was conducted in a shielded room.</p> <p>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a <math>50\Omega/50\mu\text{H} + 5\Omega</math> linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</p> <p>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</p> <p>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</p> |              |           |

**SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.**

Report No.: SUCR250100002403  
 Rev.: Amendment 02  
 Page: 15 of 180

|                   |                                                                                    |
|-------------------|------------------------------------------------------------------------------------|
| Test Setup:       |  |
| Test Mode:        | BT Link + WIFI 2.4G Link + WIFI 5G/6E Link                                         |
| Instruments Used: | Refer to section 6 for details.                                                    |
| Test Results:     | Pass                                                                               |



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

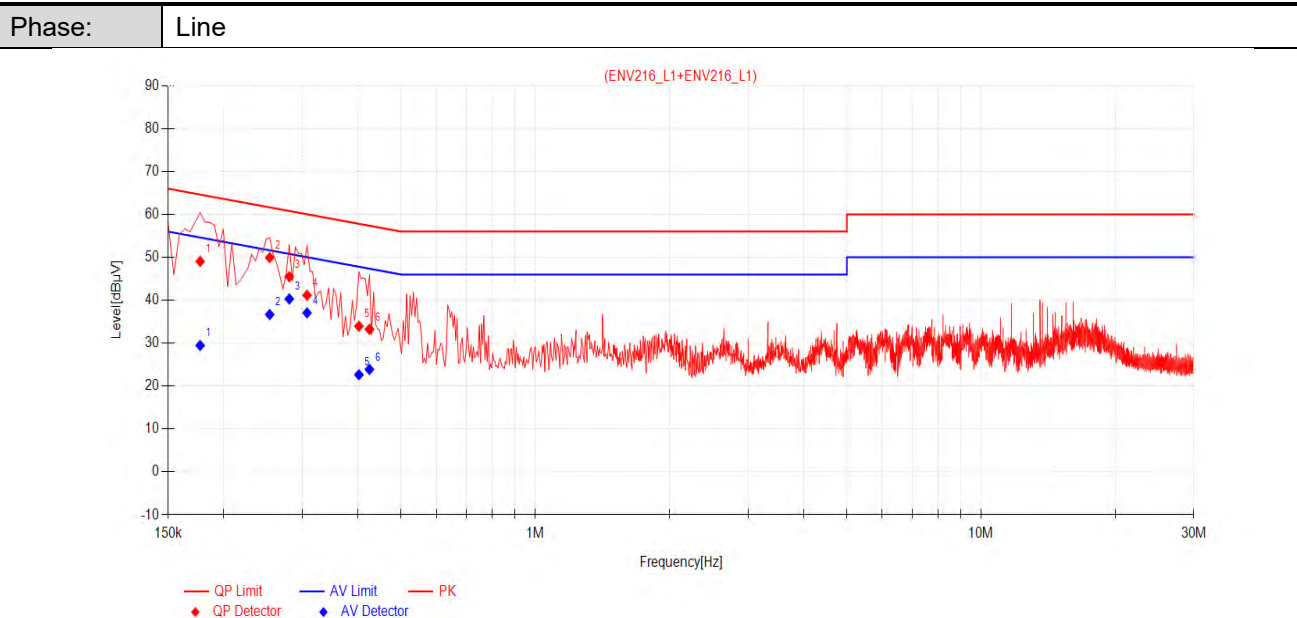
Rev.: Amendment 02

Page: 16 of 180

### Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



### Final Data List

| NO. | Frequency [MHz] | Factor [dB] | QP Reading [dBμV] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Reading [dBμV] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] | Verdict |
|-----|-----------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| 1   | 0.1770          | 10.19       | 38.86             | 49.05           | 64.63           | 15.58          | 19.29             | 29.48           | 54.63           | 25.15          | PASS    |
| 2   | 0.2535          | 10.15       | 39.79             | 49.94           | 61.64           | 11.70          | 26.53             | 36.68           | 51.64           | 14.96          | PASS    |
| 3   | 0.2805          | 10.15       | 35.34             | 45.49           | 60.80           | 15.31          | 30.16             | 40.31           | 50.80           | 10.49          | PASS    |
| 4   | 0.3075          | 10.16       | 31.01             | 41.17           | 60.04           | 18.87          | 26.89             | 37.05           | 50.04           | 12.99          | PASS    |
| 5   | 0.4020          | 10.17       | 23.79             | 33.96           | 57.81           | 23.85          | 12.48             | 22.65           | 47.81           | 25.16          | PASS    |
| 6   | 0.4245          | 10.17       | 23.06             | 33.23           | 57.36           | 24.13          | 13.73             | 23.90           | 47.36           | 23.46          | PASS    |

### Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading [dBμV] + Factor (Lisn factor [dB] + cable loss [dB]).
- Margin = Limit [dBμV] – Value [dBμV]

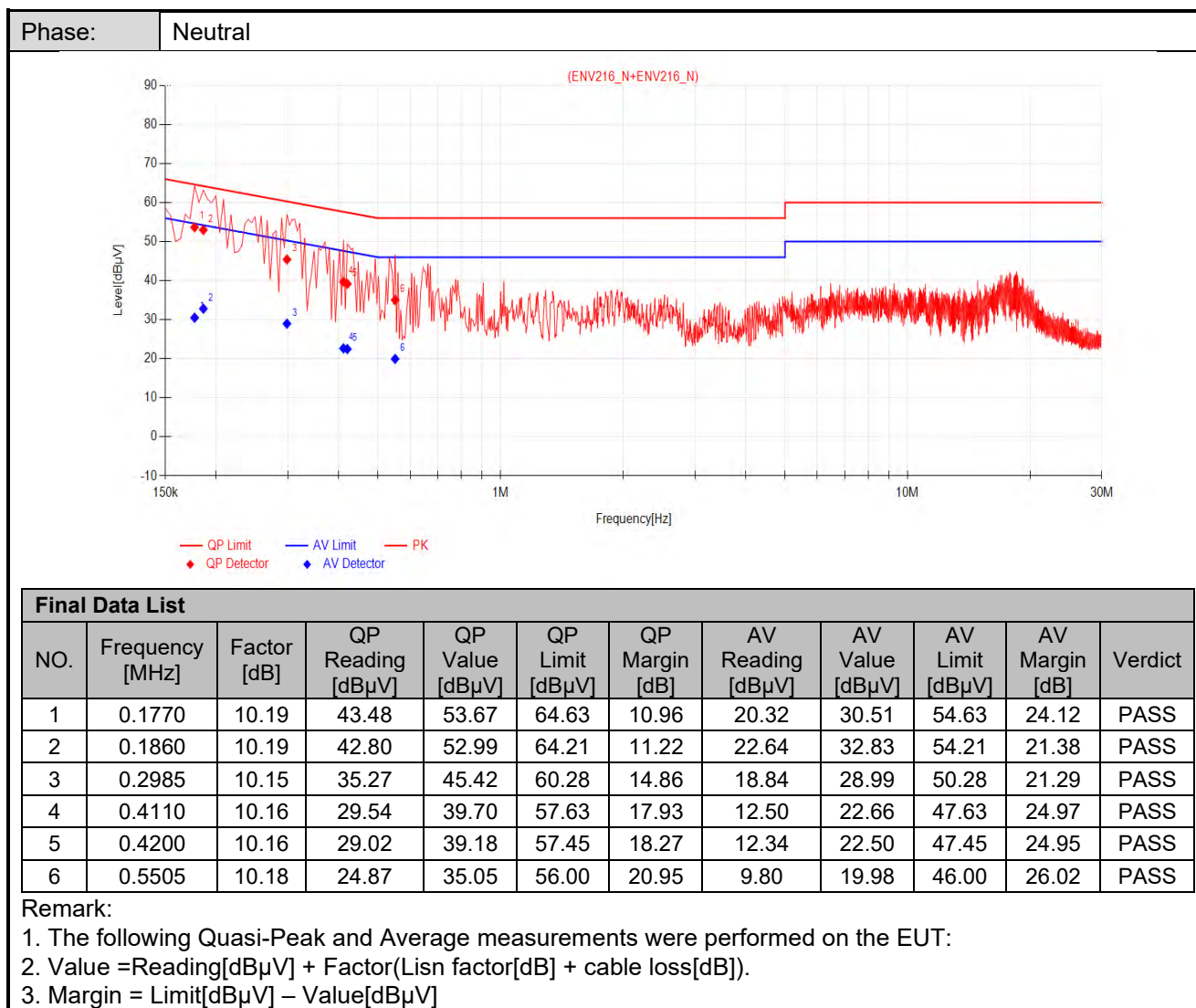


# SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

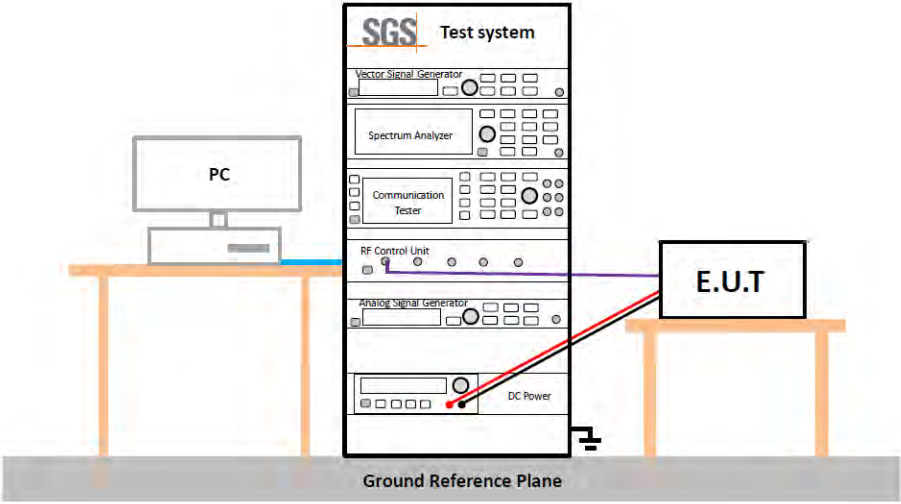
Report No.: SUCR250100002403

Rev.: Amendment 02

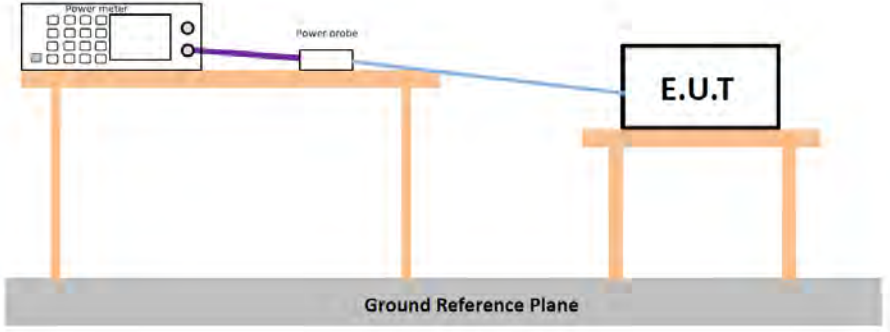
Page: 17 of 180



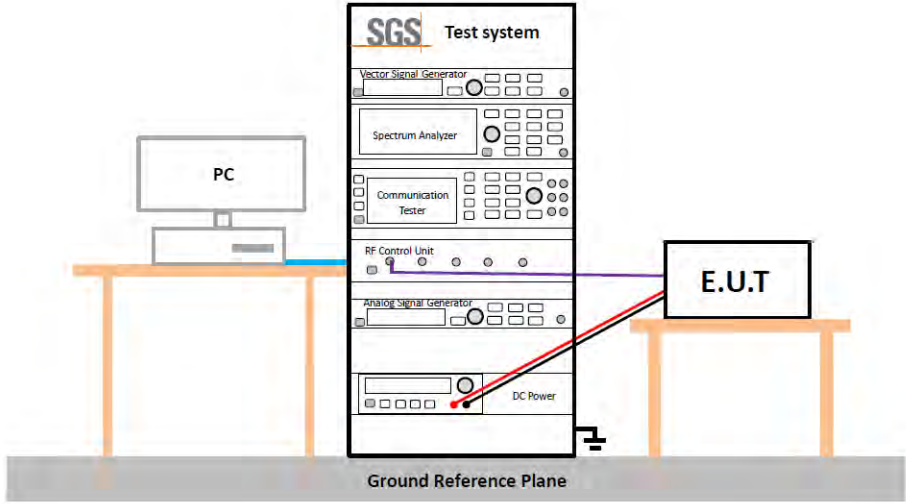
### 5.3 Duty Cycle

|                                             |                                                                                     |
|---------------------------------------------|-------------------------------------------------------------------------------------|
| Test Requirement:                           | ANSI C63.10 :2013 Section 11.6                                                      |
| Test Method:                                | ANSI C63.10 :2013 Section 11.6                                                      |
| Test Setup:                                 |  |
| Instruments Used:                           | Refer to section 6 for details                                                      |
| Exploratory Test Mode:                      | Transmitting with all kind of modulations, data rates                               |
| Final Test Mode:                            | Refer to section 3.7 for details.                                                   |
| Limit:                                      | No restriction limits                                                               |
| Test Results:                               | For Report Purpose                                                                  |
| The detailed test data see: <b>Appendix</b> |                                                                                     |

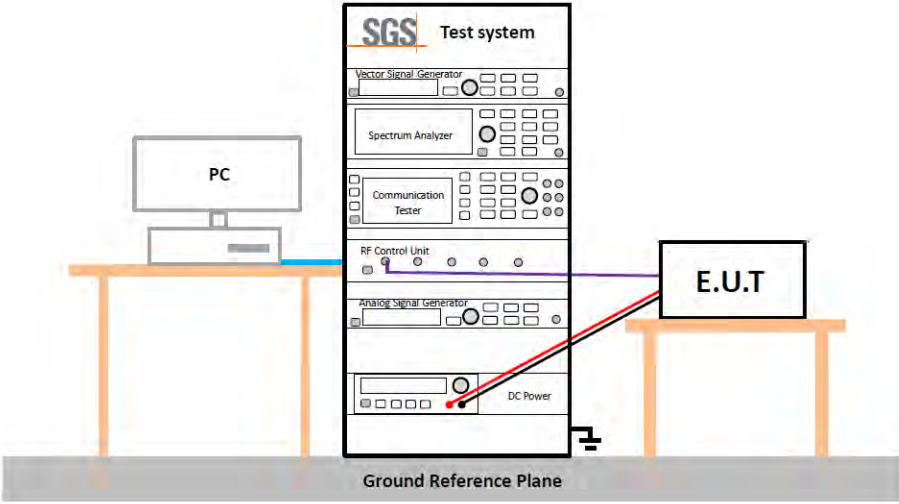
## 5.4 Conducted Output Power

|                                             |                                                                                                                                             |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement:                           | 47 CFR Part 15C Section 15.247 (b)(3)                                                                                                       |
| Test Method:                                | ANSI C63.10 :2013 Section 11.9.1.3                                                                                                          |
| Test Setup:                                 |  <p>* Test with power meter (Detector function: Peak)</p> |
| Test Instruments:                           | Refer to section 6 for details.                                                                                                             |
| Exploratory Test Mode:                      | Transmitting with all kind of modulations, data rates                                                                                       |
| Final Test Mode:                            | Refer to section 3.7 for details.                                                                                                           |
| Limit:                                      | 30dBm                                                                                                                                       |
| Test Results:                               | Pass                                                                                                                                        |
| The detailed test data see: <b>Appendix</b> |                                                                                                                                             |

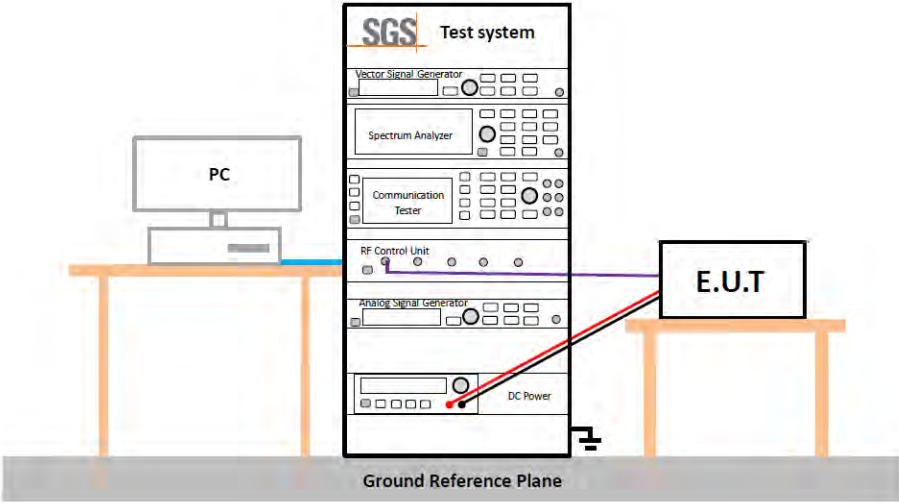
## 5.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

|                                             |                                                                                     |
|---------------------------------------------|-------------------------------------------------------------------------------------|
| Test Requirement:                           | 47 CFR Part 15C Section 15.247 (a)(2)                                               |
| Test Method:                                | ANSI C63.10: 2013 Section 11.8 Option 2 / 6.9.3                                     |
| Test Setup:                                 |  |
| Instruments Used:                           | Refer to section 6 for details.                                                     |
| Exploratory Test Mode:                      | Transmitting with all kind of modulations, data rates                               |
| Final Test Mode:                            | Refer to section 3.7 for details.                                                   |
| Limit:                                      | $\geq 500$ kHz for DTS Bandwidth                                                    |
| Test Results:                               | Pass                                                                                |
| The detailed test data see: <b>Appendix</b> |                                                                                     |

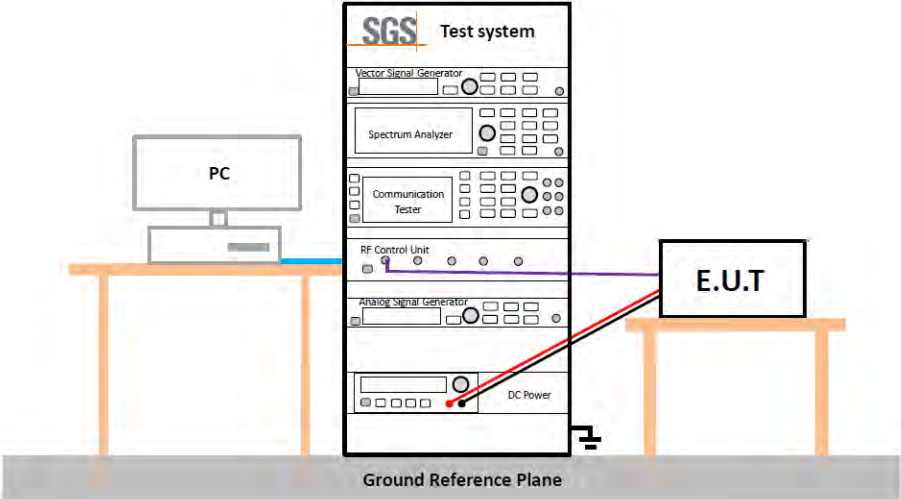
## 5.6 Power Spectral Density

|                                             |                                                                                     |
|---------------------------------------------|-------------------------------------------------------------------------------------|
| Test Requirement:                           | 47 CFR Part 15C Section 15.247 (e)                                                  |
| Test Method:                                | ANSI C63.10 :2013 Section 11.10.2                                                   |
| Test Setup:                                 |  |
| Test Instruments:                           | Refer to section 6 for details.                                                     |
| Exploratory Test Mode:                      | Transmitting with all kind of modulations, data rates                               |
| Final Test Mode:                            | Refer to section 3.7 for details.                                                   |
| Limit:                                      | $\leq 8.00\text{dBm}/3\text{kHz}$                                                   |
| Test Results:                               | Pass                                                                                |
| The detailed test data see: <b>Appendix</b> |                                                                                     |

## 5.7 Band-edge for RF Conducted Emissions

|                                             |                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement:                           | 47 CFR Part 15C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                      |
| Test Method:                                | ANSI C63.10: 2013 Section 11.11                                                                                                                                                                                                                                                                                                                                                         |
| Test Setup:                                 |                                                                                                                                                                                                                                                                                                      |
| Instruments Used:                           | Refer to section 6 for details.                                                                                                                                                                                                                                                                                                                                                         |
| Exploratory Test Mode:                      | Transmitting with all kind of modulations, data rates                                                                                                                                                                                                                                                                                                                                   |
| Final Test Mode:                            | Refer to section 3.7 for details.                                                                                                                                                                                                                                                                                                                                                       |
| Limit:                                      | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Test Results:                               | Pass                                                                                                                                                                                                                                                                                                                                                                                    |
| The detailed test data see: <b>Appendix</b> |                                                                                                                                                                                                                                                                                                                                                                                         |

## 5.8 RF Conducted Spurious Emissions

|                                             |                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement:                           | 47 CFR Part 15C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                      |
| Test Method:                                | ANSI C63.10: 2013 Section 11.11                                                                                                                                                                                                                                                                                                                                                         |
| Test Setup:                                 |                                                                                                                                                                                                                                                                                                      |
| Instruments Used:                           | Refer to section 6 for details.                                                                                                                                                                                                                                                                                                                                                         |
| Exploratory Test Mode:                      | Transmitting with all kind of modulations, data rates                                                                                                                                                                                                                                                                                                                                   |
| Final Test Mode:                            | Refer to section 3.7 for details.                                                                                                                                                                                                                                                                                                                                                       |
| Limit:                                      | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Test Results:                               | Pass                                                                                                                                                                                                                                                                                                                                                                                    |
| The detailed test data see: <b>Appendix</b> |                                                                                                                                                                                                                                                                                                                                                                                         |



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 24 of 180

### 5.9 Radiated Spurious Emissions

|                   |                                                                                                                                                                                                                                                                               |                                     |                   |            |                             |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------|------------|-----------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205                                                                                                                                                                                                                                     |                                     |                   |            |                             |
| Test Method:      | ANSI C63.10 :2013 Section 11.12                                                                                                                                                                                                                                               |                                     |                   |            |                             |
| Test Site:        | Measurement Distance: 3m (Semi-Anechoic Chamber)                                                                                                                                                                                                                              |                                     |                   |            |                             |
| Test Frequency:   | 9kHz ~ 25GHz                                                                                                                                                                                                                                                                  |                                     |                   |            |                             |
| Receiver Setup:   | Frequency                                                                                                                                                                                                                                                                     | Detector                            | RBW               | VBW        | Remark                      |
|                   | 0.009MHz-0.090MHz                                                                                                                                                                                                                                                             | Peak                                | 10kHz             | 30kHz      | Peak                        |
|                   | 0.009MHz-0.090MHz                                                                                                                                                                                                                                                             | Average                             | 10kHz             | 30kHz      | Average                     |
|                   | 0.090MHz-0.110MHz                                                                                                                                                                                                                                                             | Quasi-peak                          | 10kHz             | 30kHz      | Quasi-peak                  |
|                   | 0.110MHz-0.490MHz                                                                                                                                                                                                                                                             | Peak                                | 10kHz             | 30kHz      | Peak                        |
|                   | 0.110MHz-0.490MHz                                                                                                                                                                                                                                                             | Average                             | 10kHz             | 30kHz      | Average                     |
|                   | 0.490MHz -30MHz                                                                                                                                                                                                                                                               | Quasi-peak                          | 10kHz             | 30kHz      | Quasi-peak                  |
|                   | 30MHz-1GHz                                                                                                                                                                                                                                                                    | Quasi-peak                          | 120kHz            | 300kHz     | Quasi-peak                  |
|                   | Above 1GHz                                                                                                                                                                                                                                                                    | Peak                                | 1MHz              | 3MHz       | Peak                        |
|                   |                                                                                                                                                                                                                                                                               | Peak                                | 1MHz              | 3MHz       | Peak                        |
| Limit:            | Frequency                                                                                                                                                                                                                                                                     | Field strength<br>(microvolt/meter) | Limit<br>(dBuV/m) | Remark     | Measurement<br>distance (m) |
|                   | 0.009MHz-0.490MHz                                                                                                                                                                                                                                                             | 2400/F(kHz)                         | -                 | -          | 300                         |
|                   | 0.490MHz-1.705MHz                                                                                                                                                                                                                                                             | 24000/F(kHz)                        | -                 | -          | 30                          |
|                   | 1.705MHz-30MHz                                                                                                                                                                                                                                                                | 30                                  | -                 | -          | 30                          |
|                   | 30MHz-88MHz                                                                                                                                                                                                                                                                   | 100                                 | 40.0              | Quasi-peak | 3                           |
|                   | 88MHz-216MHz                                                                                                                                                                                                                                                                  | 150                                 | 43.5              | Quasi-peak | 3                           |
|                   | 216MHz-960MHz                                                                                                                                                                                                                                                                 | 200                                 | 46.0              | Quasi-peak | 3                           |
|                   | 960MHz-1GHz                                                                                                                                                                                                                                                                   | 500                                 | 54.0              | Quasi-peak | 3                           |
|                   | Above 1GHz                                                                                                                                                                                                                                                                    | 500                                 | 54.0              | Average    | 3                           |
|                   | Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device. |                                     |                   |            |                             |

### Test Setup:

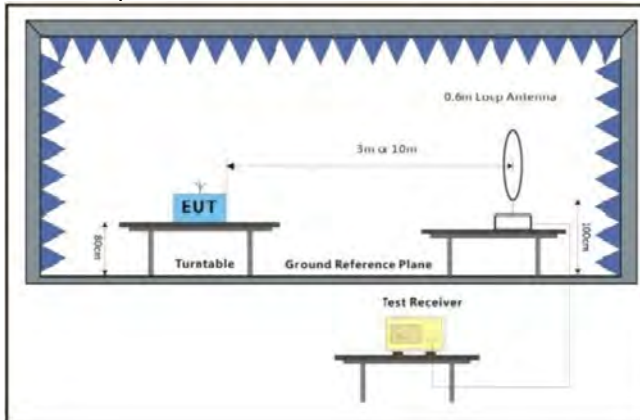


Figure 1. Below 30MHz

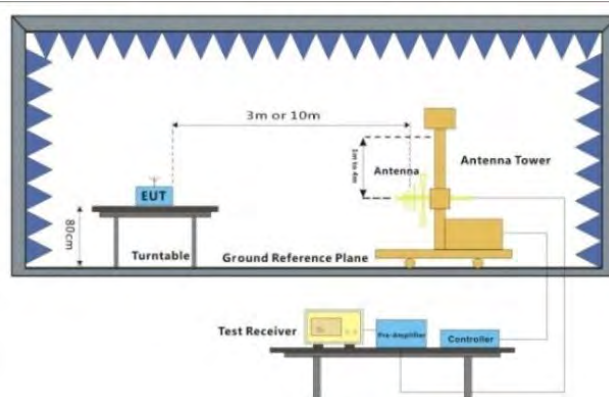


Figure 2. 30MHz to 1GHz

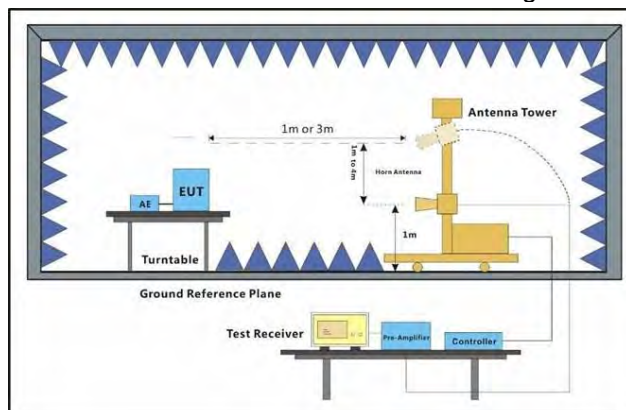


Figure 3. Above 1 GHz

### Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the 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.
- Test the EUT in the lowest channel, the middle channel, the Highest



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 26 of 180

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                             | <p>channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported</p> <p>k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by <math>20 \times \log(3/1) = 9.54 \text{ dB}</math>.</p>                                                                                                                                                                                                                                                                                                                                                                         |
| Test Configuration:                         | <p>Measurements below 30MHz</p> <ul style="list-style-type: none"> <li>• RBW = 10 kHz</li> <li>• VBW = 30 kHz</li> <li>• Detector = Peak &amp; Average &amp; Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq 3 \text{ MHz}</math></li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW <math>\geq 1/T</math>, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul> |
| Exploratory Test Mode:                      | <p>Transmitting with all kind of modulations, data rates.</p> <p>Charge + Transmitting mode.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Final Test Mode:                            | <p>Refer to section 3.7 for details.</p> <p>For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Instruments Used:                           | Refer to section 6 for details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Test Results:                               | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| The detailed test data see: <b>Appendix</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## 5.10 Restricted bands around fundamental frequency

|                   |                                                  |                |               |
|-------------------|--------------------------------------------------|----------------|---------------|
| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205        |                |               |
| Test Method:      | ANSI C63.10: 2013 Section 11.12                  |                |               |
| Test Site:        | Measurement Distance: 3m (Semi-Anechoic Chamber) |                |               |
| Limit:            | Frequency                                        | Limit (dBuV/m) | Remark        |
|                   | 30MHz-88MHz                                      | 40.0           | Quasi-peak    |
|                   | 88MHz-216MHz                                     | 43.5           | Quasi-peak    |
|                   | 216MHz-960MHz                                    | 46.0           | Quasi-peak    |
|                   | 960MHz-1GHz                                      | 54.0           | Quasi-peak    |
|                   | Above 1GHz                                       | 54.0           | Average Value |
|                   |                                                  | 74.0           | Peak Value    |

Test Setup:

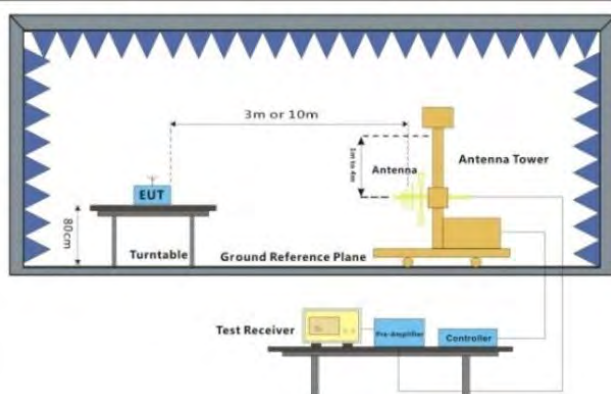


Figure 1. 30MHz to 1GHz

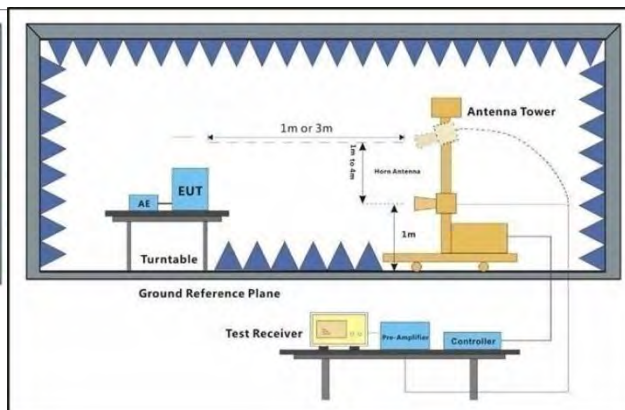


Figure 2. Above 1 GHz

## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 28 of 180

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Procedure:                             | <ol style="list-style-type: none"> <li>For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> <li>Test the EUT in the lowest channel , the Highest channel</li> <li>The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> </ol> |
| Test Configuration:                         | <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq</math> 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW <math>\geq</math> 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Exploratory Test Mode:                      | Transmitting with all kind of modulations, data rates.<br>Charge + Transmitting mode.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Final Test Mode:                            | Refer to section 3.7 for details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Instruments Used:                           | Refer to section 6 for details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Results:                               | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| The detailed test data see: <b>Appendix</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |



## **SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.**

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 29 of 180

## **6 Photographs - Setup Photos**

Refer to Appendix A.2 WLAN Setup Photos.



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 30 of 180

## 7 Appendix

### 1. Duty Cycle

#### 1.1 Test Result

##### 1.1.1 ANT2

| ANT2             |         |                 |    |        |           |             |                |                                   |                       |
|------------------|---------|-----------------|----|--------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11b          | SISO    | 2412            | /  | /      | 8.610     | 8.750       | 98.40          | 0.07                              | 0.00                  |
| 802.11g          | SISO    | 2412            | /  | /      | 1.429     | 1.576       | 90.67          | 0.43                              | 0.03                  |
| 802.11n (HT20)   | MIMO    | 2412            | /  | /      | 1.429     | 1.546       | 92.43          | 0.34                              | 0.03                  |
| 802.11ax (HEW20) | MIMO    | 2412            | SU | /      | 1.035     | 1.183       | 87.49          | 0.58                              | 0.03                  |

##### 1.1.2 ANT3

| ANT3             |         |                 |    |        |           |             |                |                                   |                       |
|------------------|---------|-----------------|----|--------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11b          | SISO    | 2412            | /  | /      | 8.606     | 8.750       | 98.35          | 0.07                              | 0.04                  |
| 802.11g          | SISO    | 2412            | /  | /      | 2.793     | 2.941       | 94.97          | 0.22                              | 0.03                  |
| 802.11n (HT20)   | MIMO    | 2412            | /  | /      | 1.428     | 1.546       | 92.37          | 0.34                              | 0.03                  |
| 802.11ax (HEW20) | MIMO    | 2412            | SU | /      | 1.034     | 1.183       | 87.40          | 0.58                              | 0.03                  |



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 31 of 180

## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------------------|---------|-----------------|----|--------|-----|------------------------------|-------|---------|
|                  |         |                 |    |        |     | Result                       | Limit |         |
| 802.11b          | SISO    | 2412            | /  | /      | 2   | 11.239                       | /     | Pass    |
|                  |         | 2437            | /  | /      | 2   | 11.051                       | /     | Pass    |
|                  |         | 2462            | /  | /      | 2   | 11.302                       | /     | Pass    |
| 802.11g          | SISO    | 2412            | /  | /      | 2   | 18.755                       | /     | Pass    |
|                  |         | 2437            | /  | /      | 2   | 20.679                       | /     | Pass    |
|                  |         | 2462            | /  | /      | 2   | 18.810                       | /     | Pass    |
| 802.11n (HT20)   | MIMO    | 2412            | /  | /      | 2   | 18.505                       | /     | Pass    |
|                  |         | 2437            | /  | /      | 2   | 21.417                       | /     | Pass    |
|                  |         | 2462            | /  | /      | 2   | 19.476                       | /     | Pass    |
| 802.11ax (HEW20) | MIMO    | 2412            | SU | /      | 2   | 19.502                       | /     | Pass    |
|                  |         | 2437            | SU | /      | 2   | 19.612                       | /     | Pass    |
|                  |         | 2462            | SU | /      | 2   | 19.519                       | /     | Pass    |

#### 2.1.2 6dB BW

| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------------------|---------|-----------------|----|--------|-----|---------------------|------------|---------|
|                  |         |                 |    |        |     | Result              | Limit      |         |
| 802.11b          | SISO    | 2412            | /  | /      | 2   | 7.798               | $\geq 0.5$ | Pass    |
|                  |         | 2437            | /  | /      | 2   | 7.368               | $\geq 0.5$ | Pass    |
|                  |         | 2462            | /  | /      | 2   | 7.789               | $\geq 0.5$ | Pass    |
| 802.11g          | SISO    | 2412            | /  | /      | 2   | 16.594              | $\geq 0.5$ | Pass    |
|                  |         | 2437            | /  | /      | 2   | 16.628              | $\geq 0.5$ | Pass    |
|                  |         | 2462            | /  | /      | 2   | 16.624              | $\geq 0.5$ | Pass    |
| 802.11n (HT20)   | MIMO    | 2412            | /  | /      | 2   | 16.606              | $\geq 0.5$ | Pass    |
|                  |         | 2437            | /  | /      | 2   | 17.850              | $\geq 0.5$ | Pass    |
|                  |         | 2462            | /  | /      | 2   | 17.989              | $\geq 0.5$ | Pass    |
| 802.11ax (HEW20) | MIMO    | 2412            | SU | /      | 2   | 19.176              | $\geq 0.5$ | Pass    |
|                  |         | 2437            | SU | /      | 2   | 19.081              | $\geq 0.5$ | Pass    |
|                  |         | 2462            | SU | /      | 2   | 19.242              | $\geq 0.5$ | Pass    |

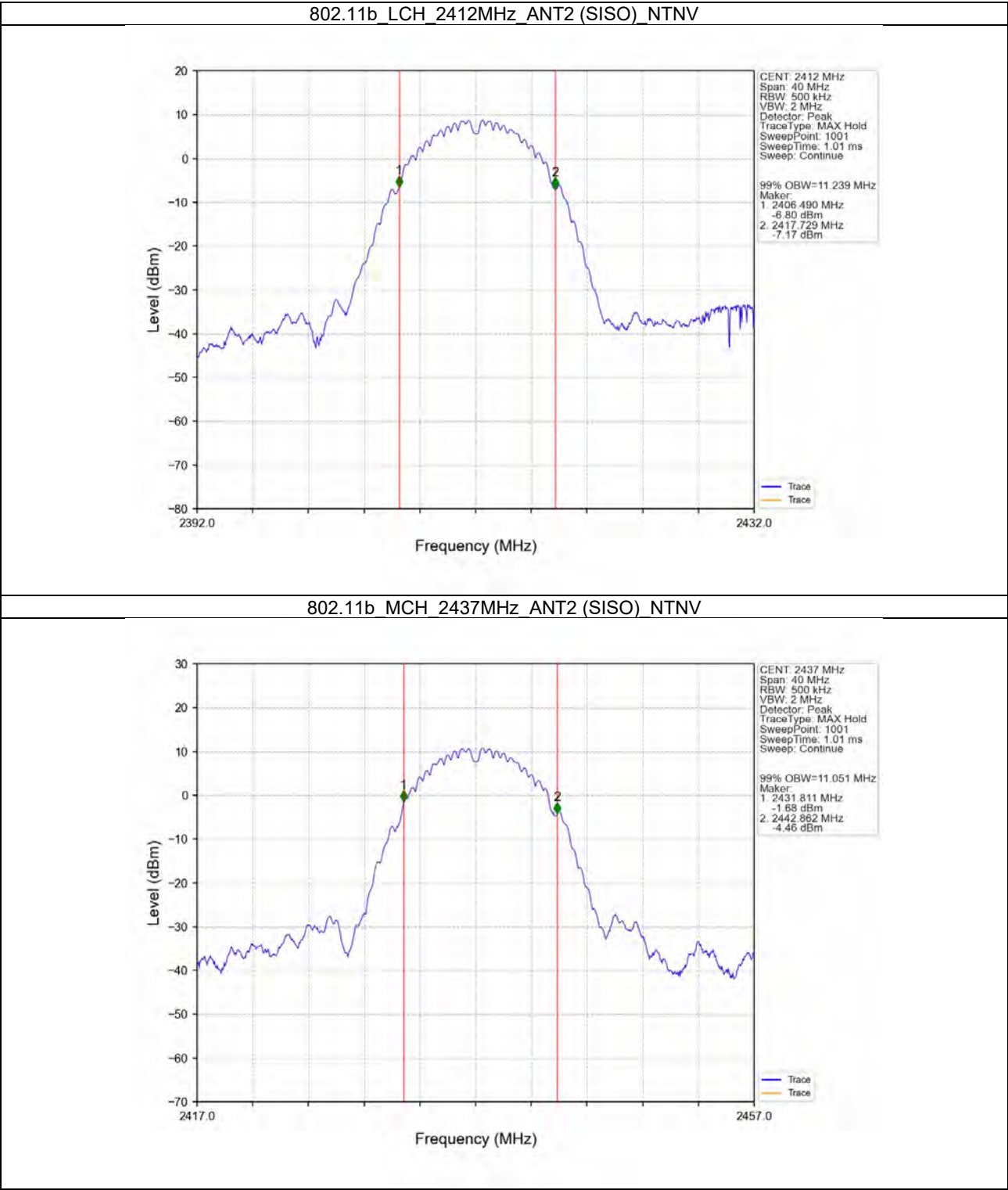


SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 32 of 180

2.2 Test Graph

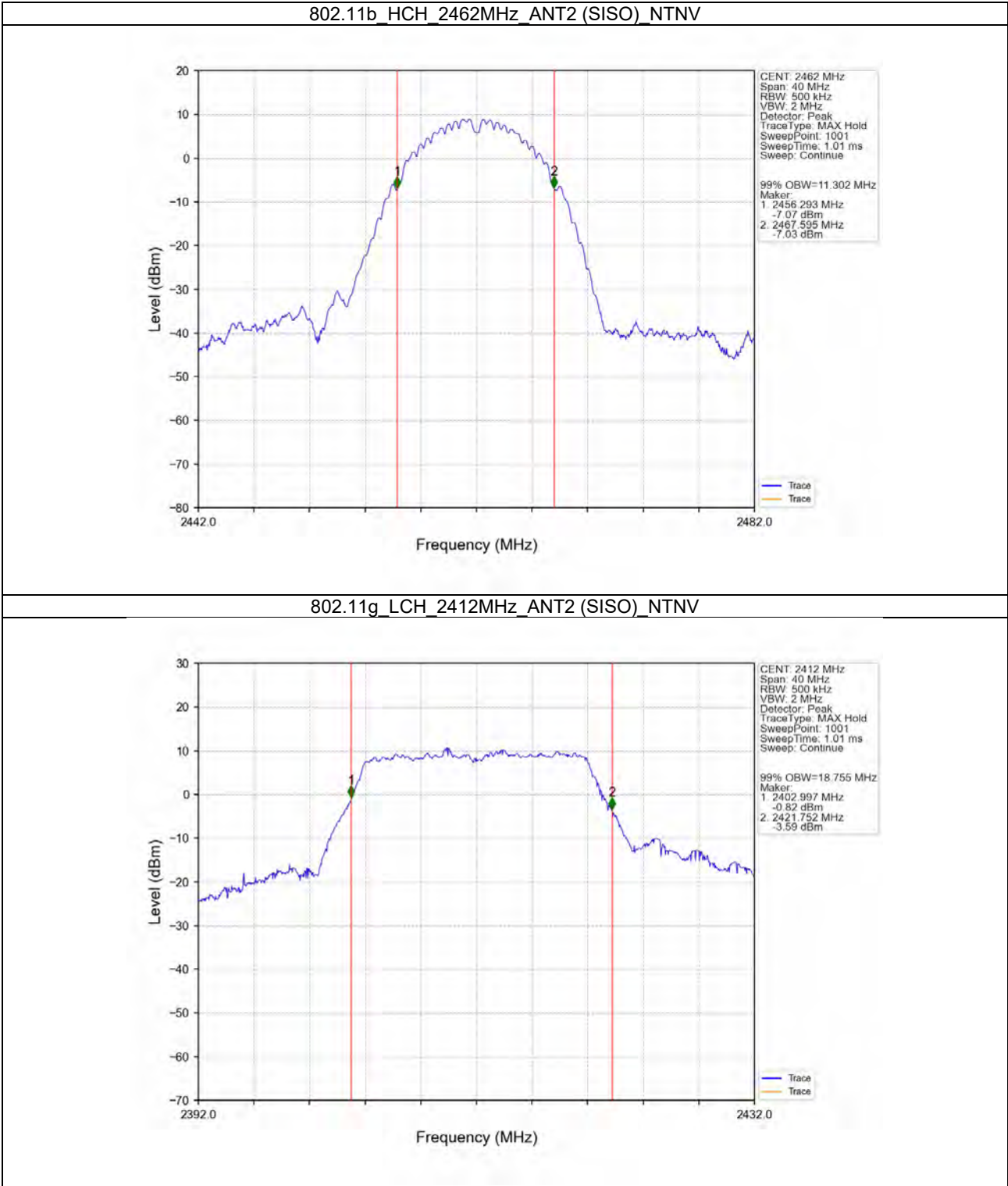
2.2.1 OBW





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 33 of 180

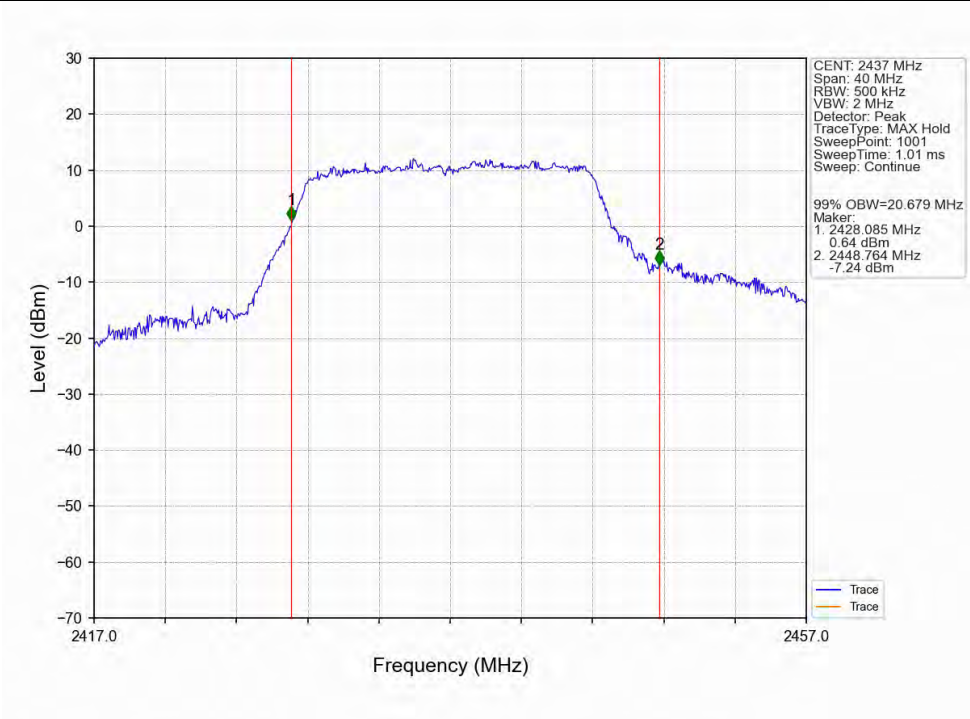




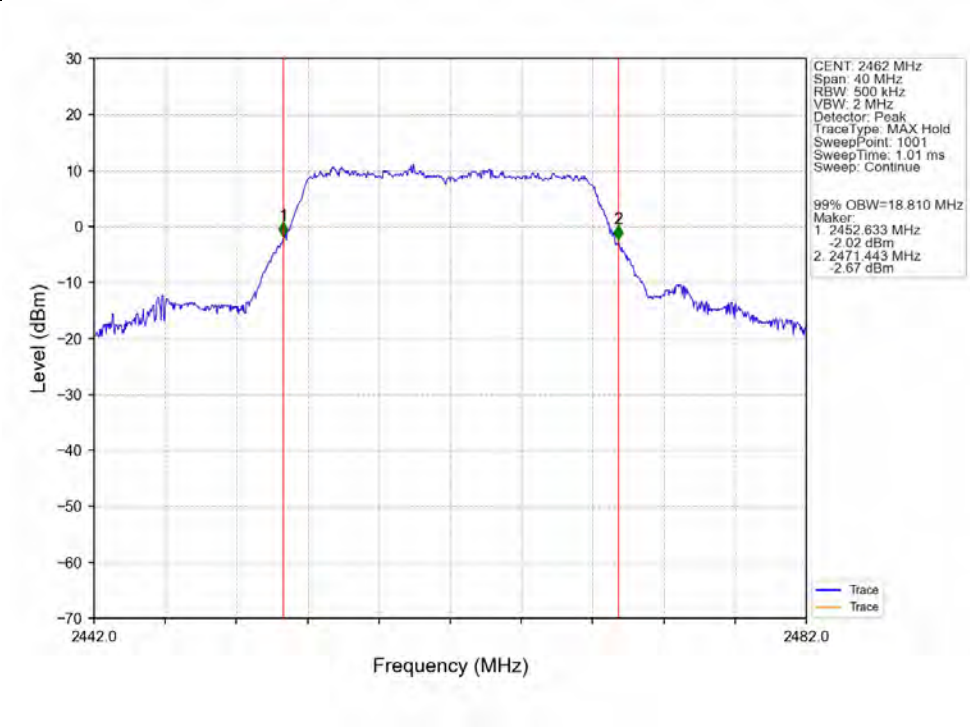
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 34 of 180

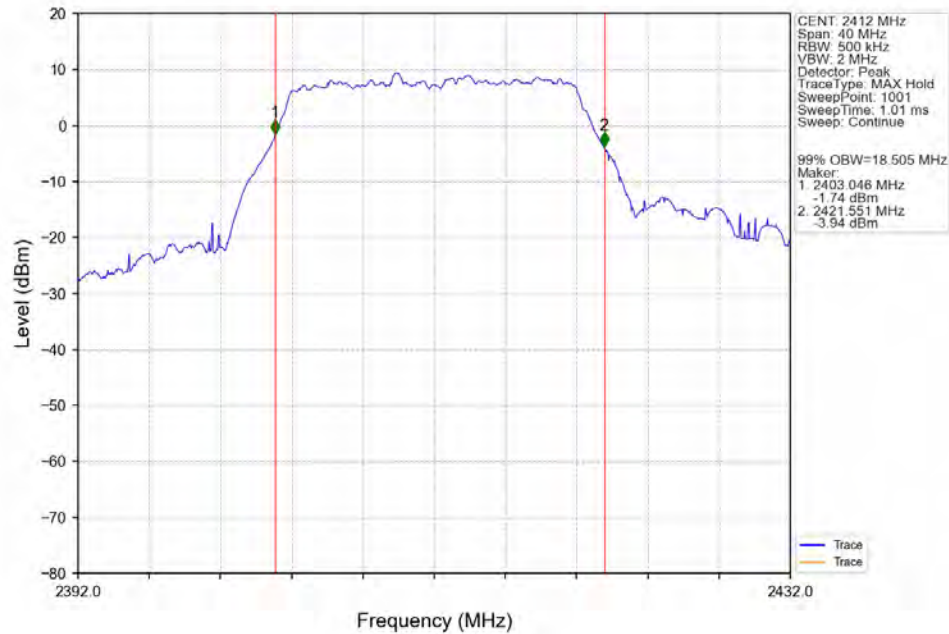
802.11g\_MCH\_2437MHz\_ANT2 (SISO)\_NTNV



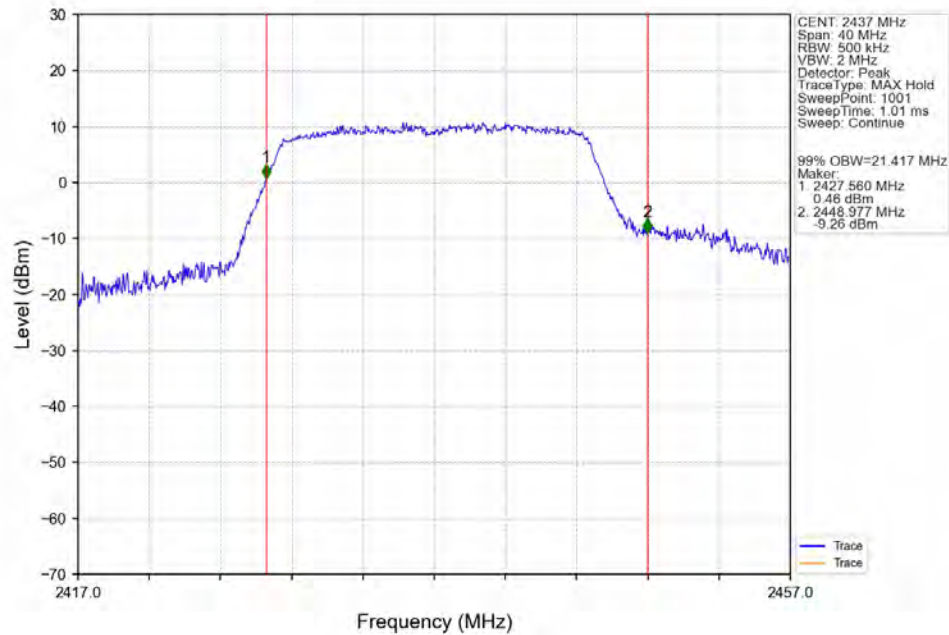
802.11g\_HCH\_2462MHz\_ANT2 (SISO)\_NTNV



802.11n(HT20)\_LCH\_2412MHz\_ANT2 (MIMO)\_NTNV



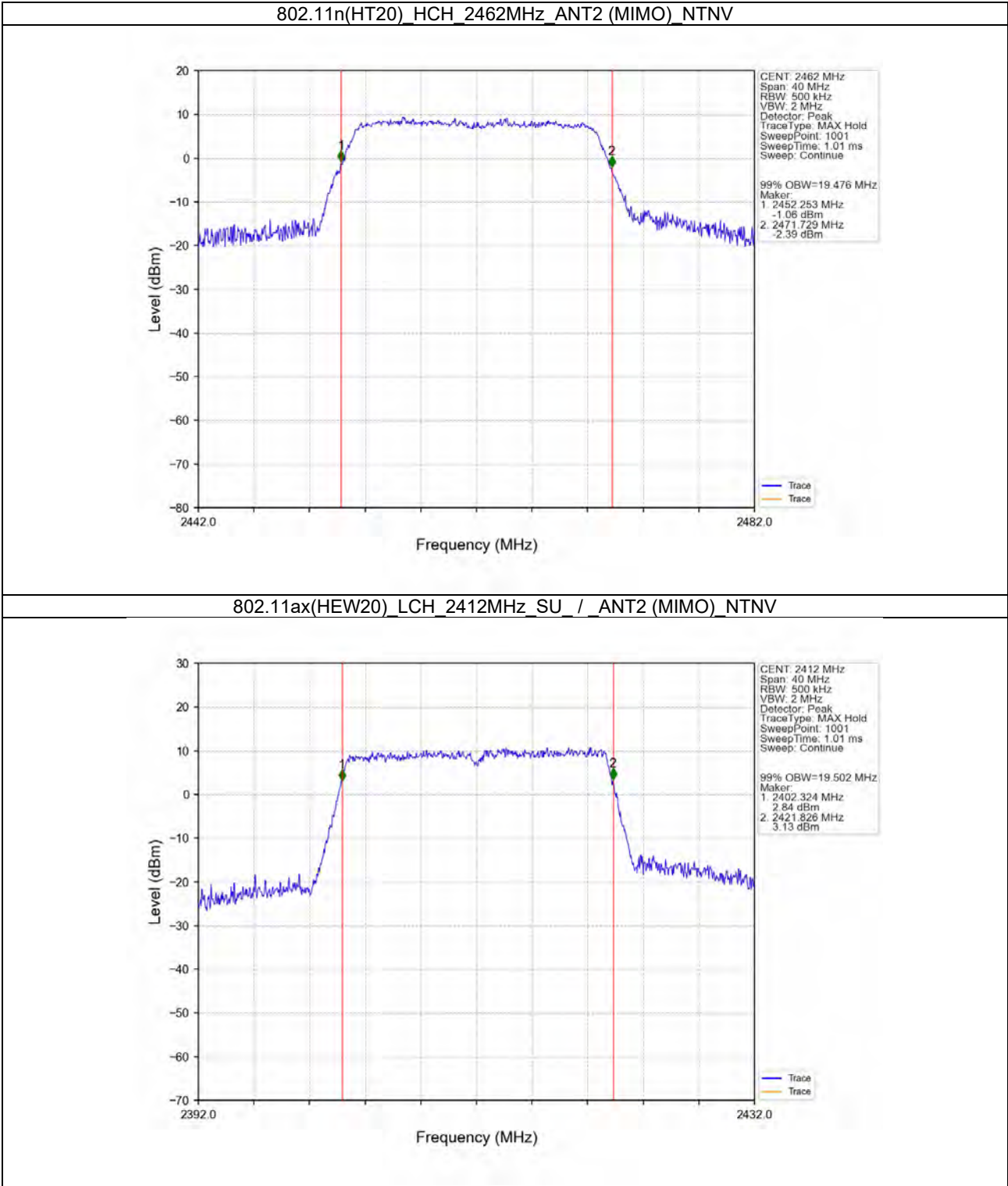
802.11n(HT20)\_MCH\_2437MHz\_ANT2 (MIMO)\_NTNV





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

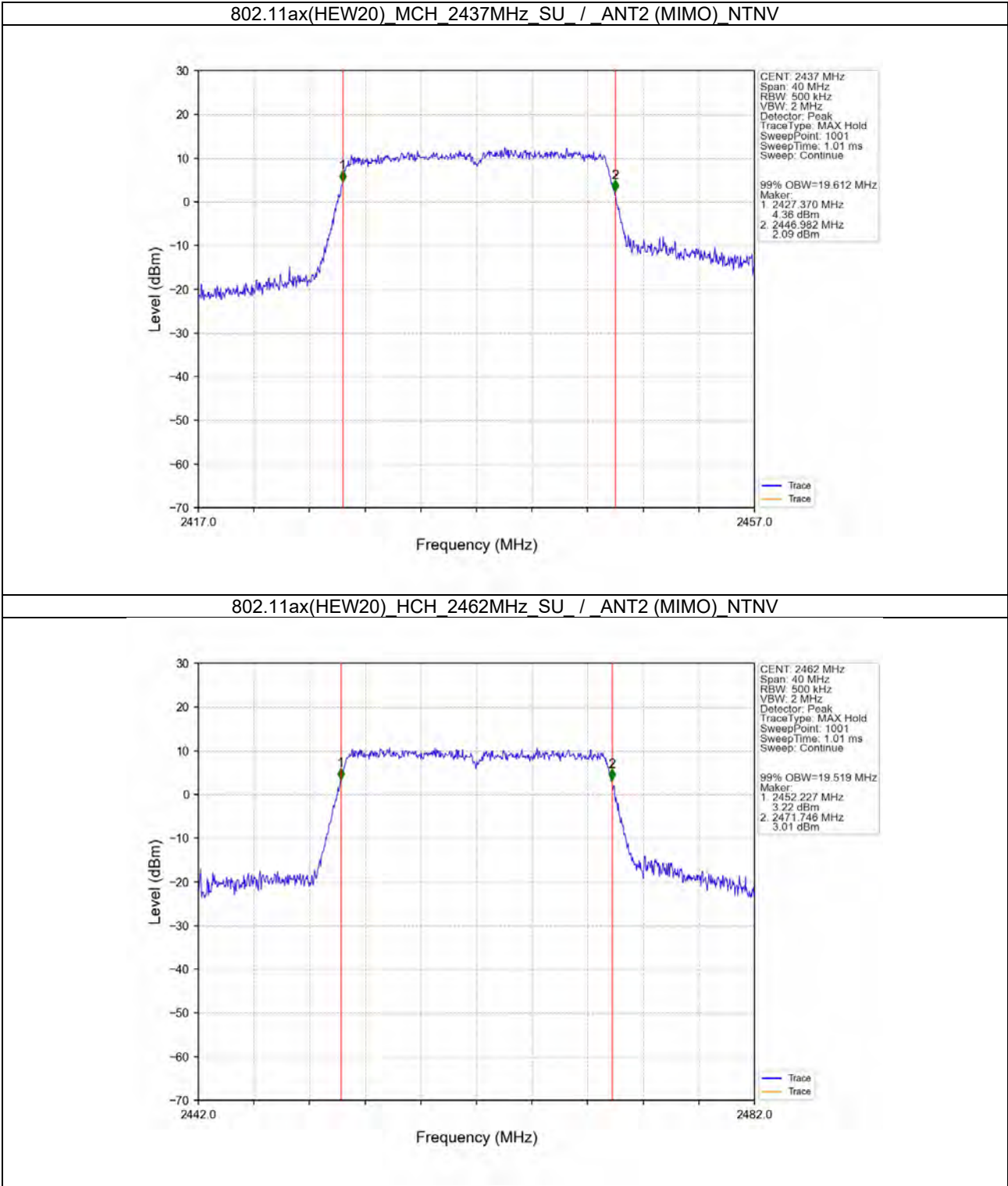
Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 36 of 180





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 37 of 180

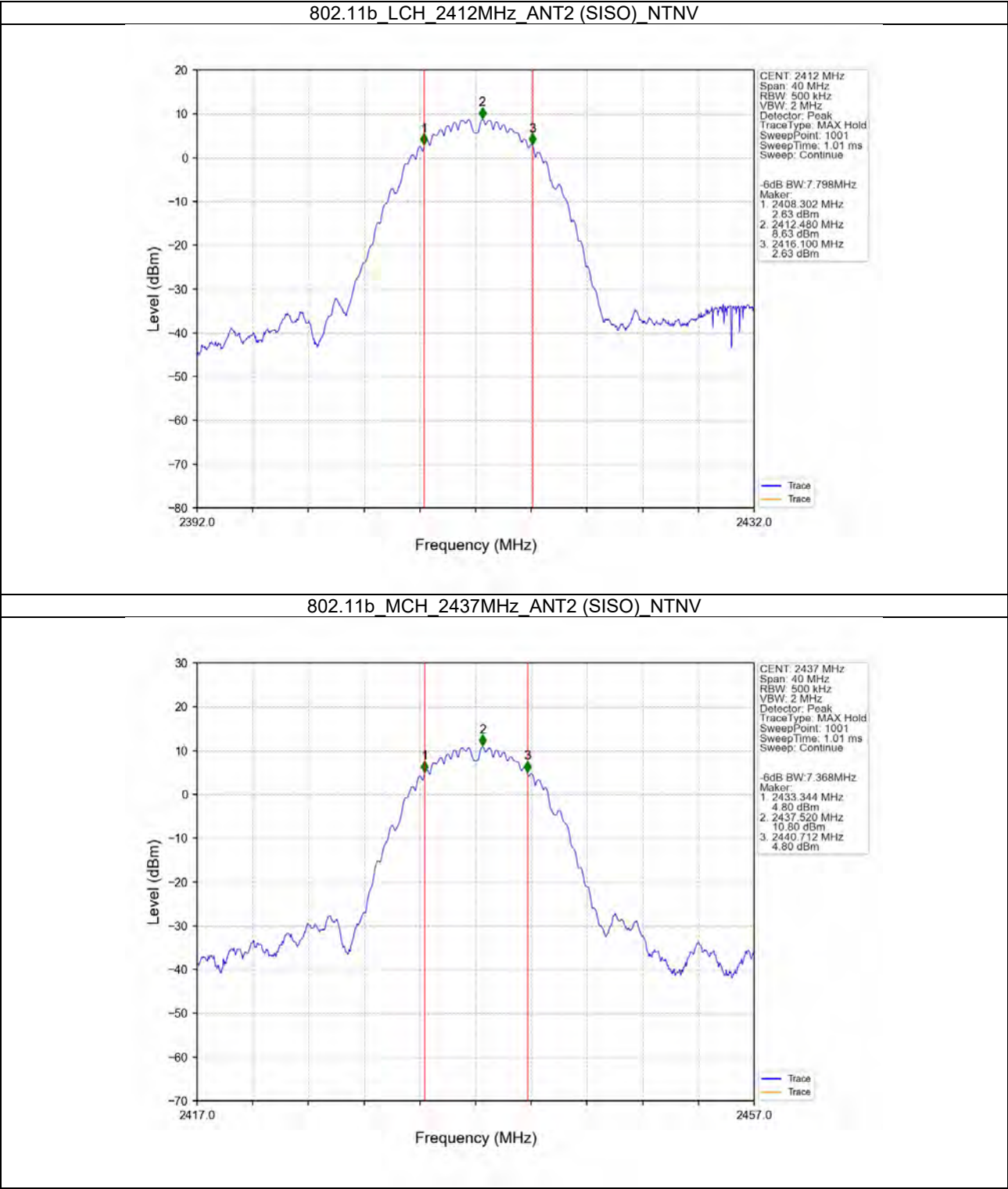




SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 38 of 180

2.2.2 6dB BW

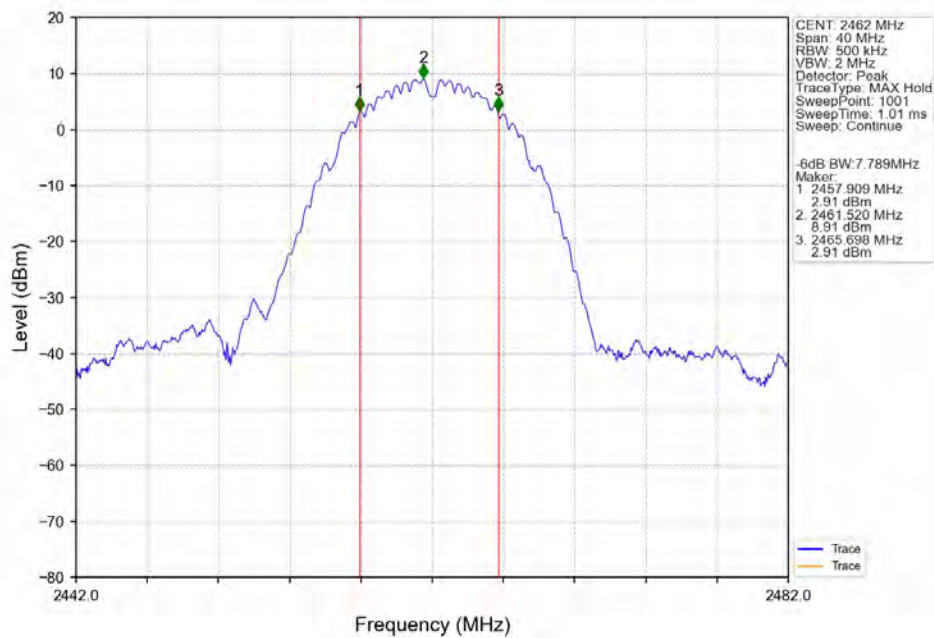




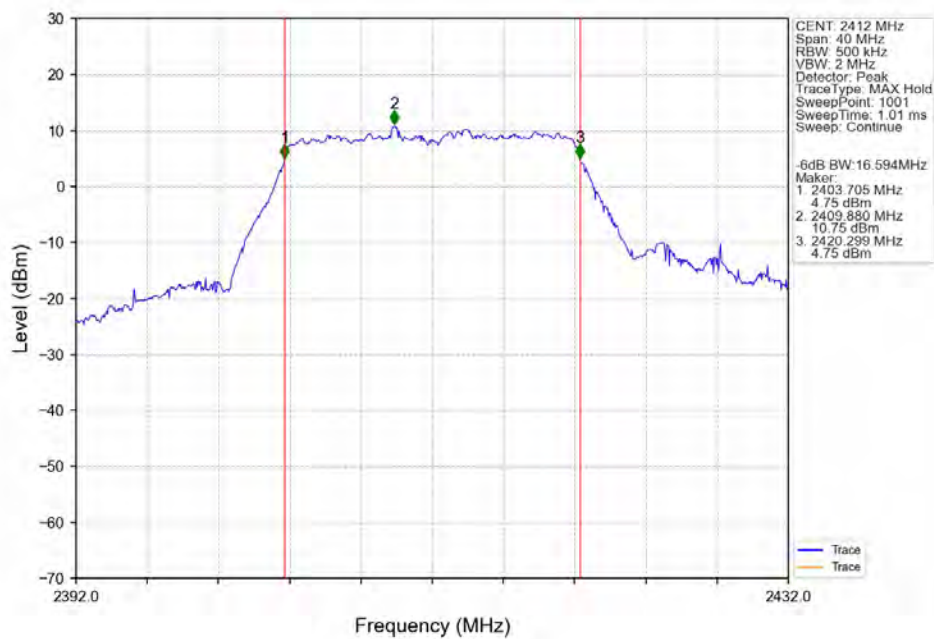
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 39 of 180

802.11b\_HCH\_2462MHz\_ANT2 (SISO)\_NTNV



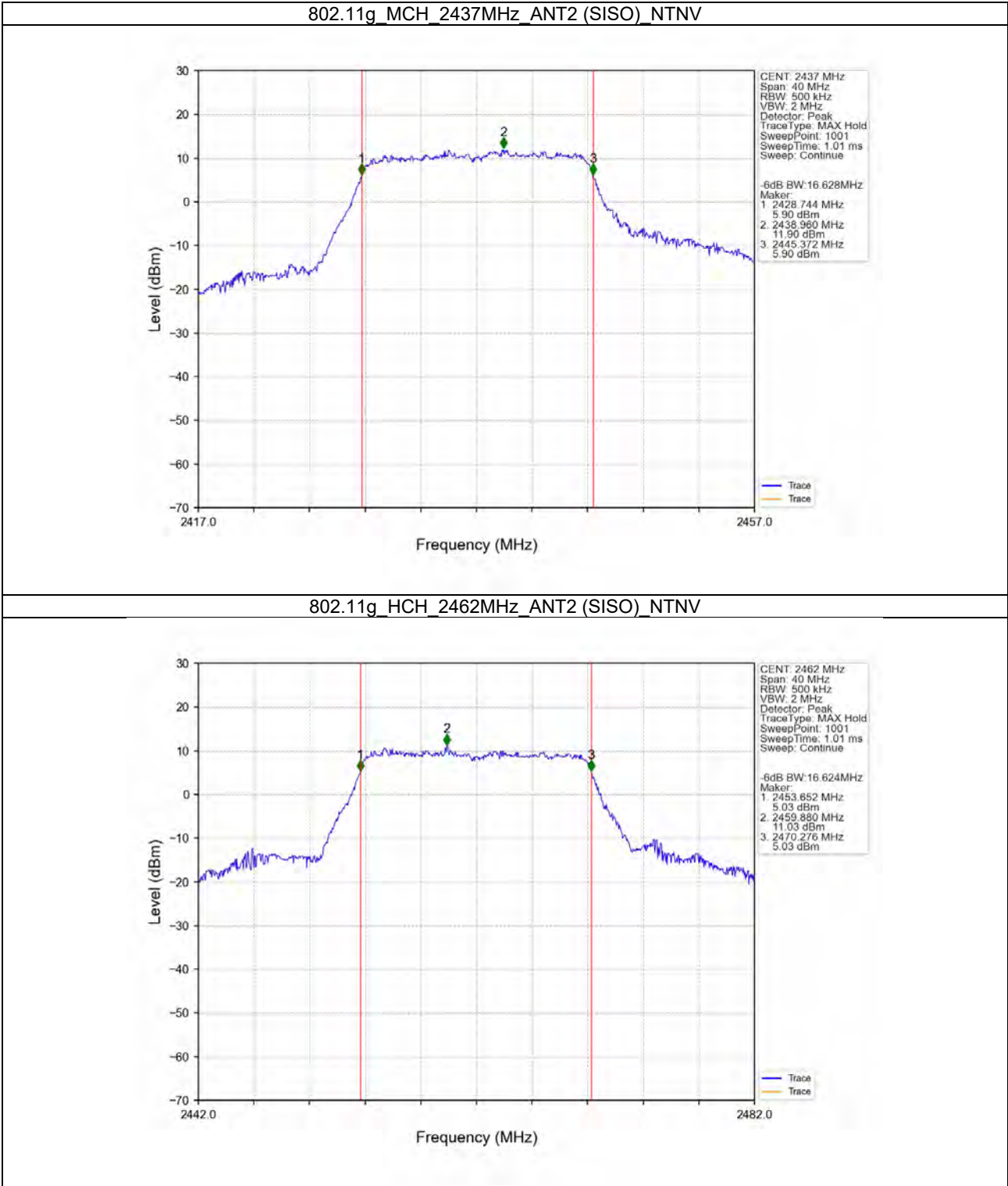
802.11g\_LCH\_2412MHz\_ANT2 (SISO)\_NTNV





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 40 of 180

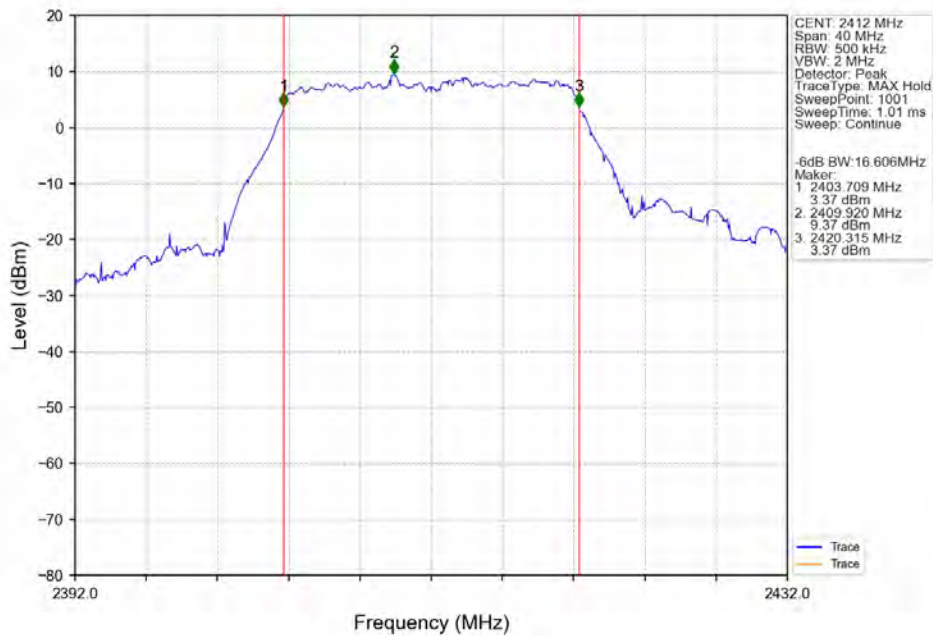




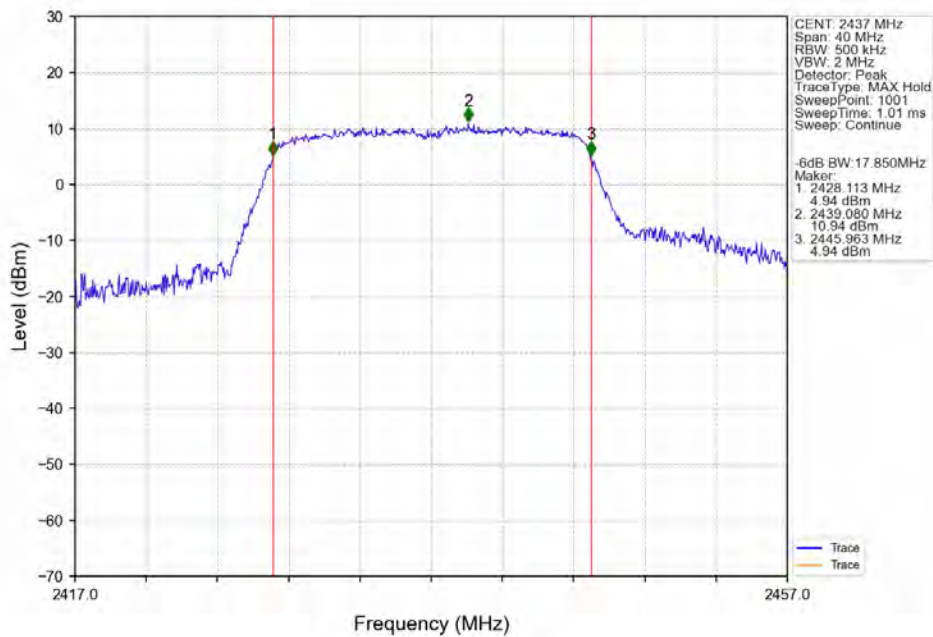
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 41 of 180

802.11n(HT20)\_LCH\_2412MHz\_ANT2 (MIMO)\_NTNV



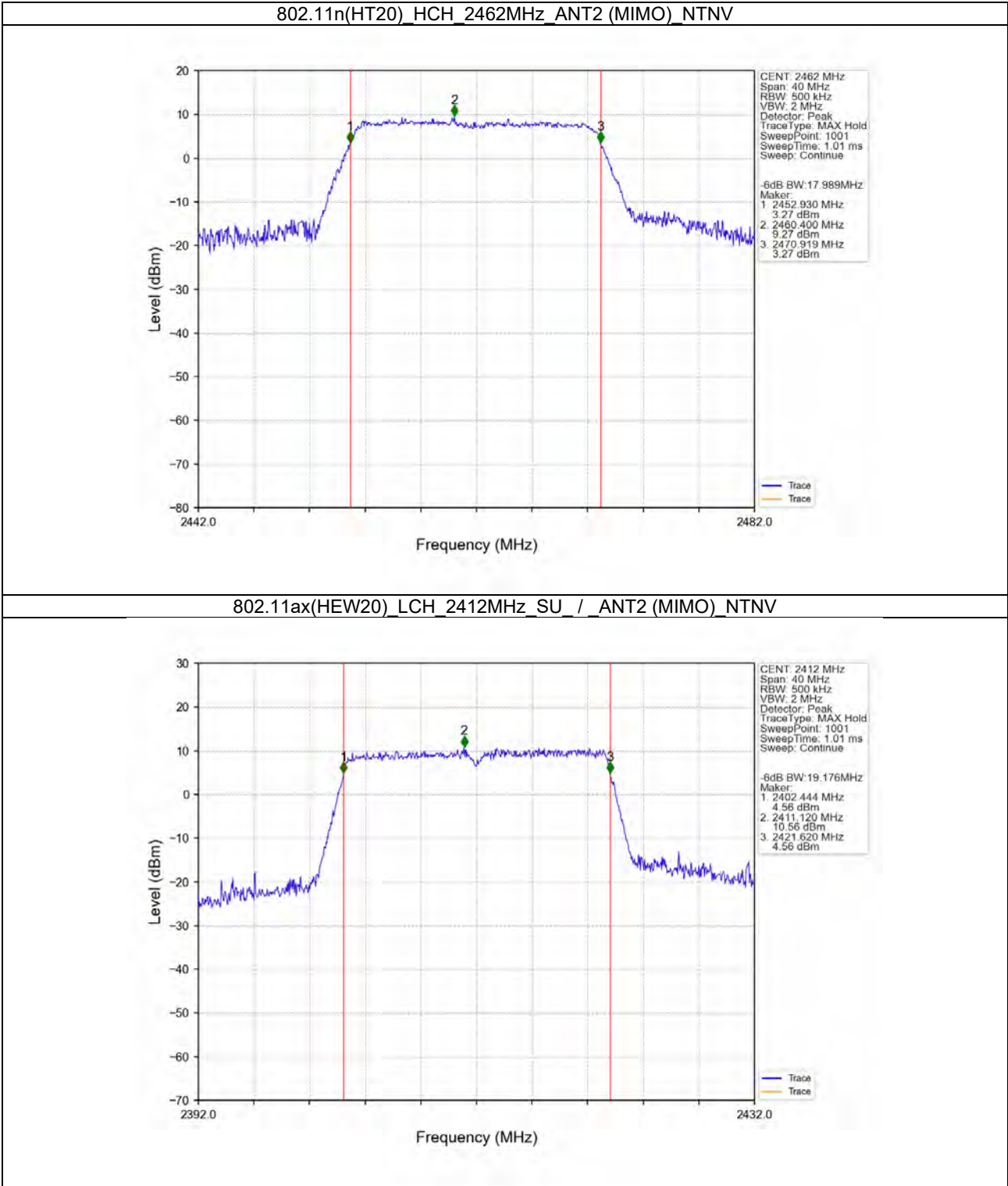
802.11n(HT20)\_MCH\_2437MHz\_ANT2 (MIMO)\_NTNV





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 42 of 180

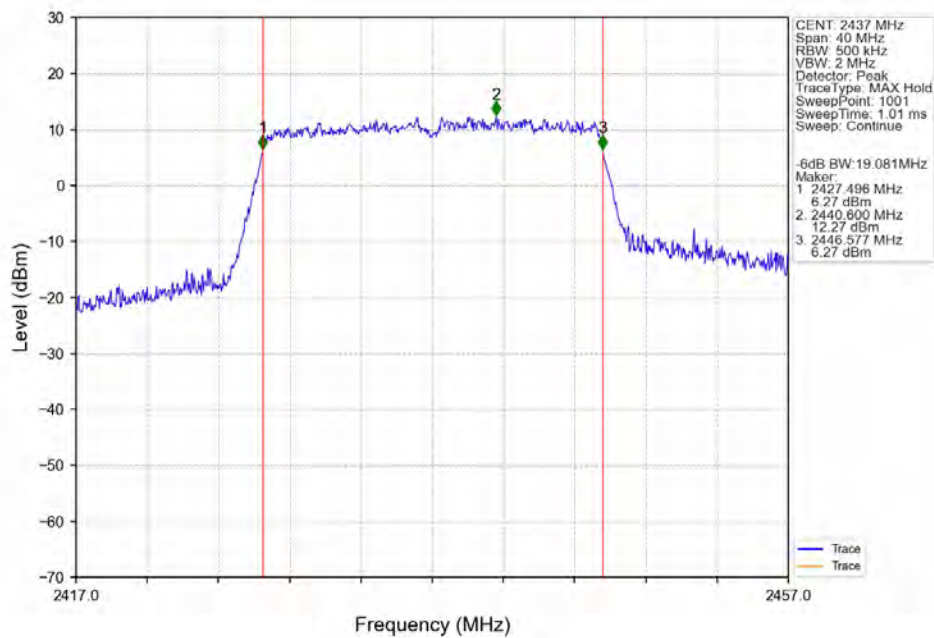




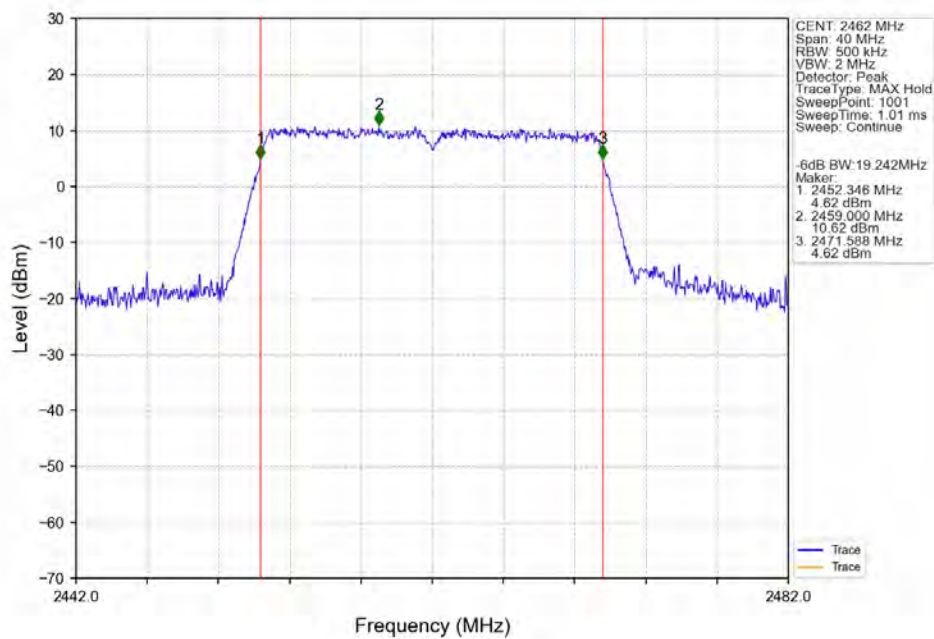
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 43 of 180

802.11ax(HEW20)\_MCH\_2437MHz\_SU\_/\_ANT2 (MIMO)\_NTNV



802.11ax(HEW20)\_HCH\_2462MHz\_SU\_/\_ANT2 (MIMO)\_NTNV







## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 45 of 180

### 4. Maximum Power Spectral Density

#### 4.1 Test Result

##### 4.1.1 PSD

| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | Maximum PSD (dBm/3kHz) |        |       |        | Verdict |
|------------------|---------|-----------------|----|--------|------------------------|--------|-------|--------|---------|
|                  |         |                 |    |        | ANT2                   | ANT3   | MIMO  | Limit  |         |
| 802.11b          | SISO    | 2412            | /  | /      | -4.99                  | -6.18  | /     | <=8    | Pass    |
|                  |         | 2437            | /  | /      | -3.45                  | -6.16  | /     | <=8    | Pass    |
|                  |         | 2462            | /  | /      | -4.77                  | -7.21  | /     | <=8    | Pass    |
| 802.11g          | SISO    | 2412            | /  | /      | -9.08                  | -9.54  | /     | <=8    | Pass    |
|                  |         | 2437            | /  | /      | -8.23                  | -8.04  | /     | <=8    | Pass    |
|                  |         | 2462            | /  | /      | -9.35                  | -10.15 | /     | <=8    | Pass    |
| 802.11n (HT20)   | MIMO    | 2412            | /  | /      | -10.05                 | -8.63  | -6.27 | <=7.89 | Pass    |
|                  |         | 2437            | /  | /      | -7.93                  | -8.70  | -6.92 | <=7.89 | Pass    |
|                  |         | 2462            | /  | /      | -10.01                 | -10.15 | -8.38 | <=7.89 | Pass    |
| 802.11ax (HEW20) | MIMO    | 2412            | SU | /      | -11.38                 | -10.71 | -8.85 | <=7.89 | Pass    |
|                  |         | 2437            | SU | /      | -9.38                  | -9.95  | -7.43 | <=7.89 | Pass    |
|                  |         | 2462            | SU | /      | -11.91                 | -11.52 | -9.85 | <=7.89 | Pass    |

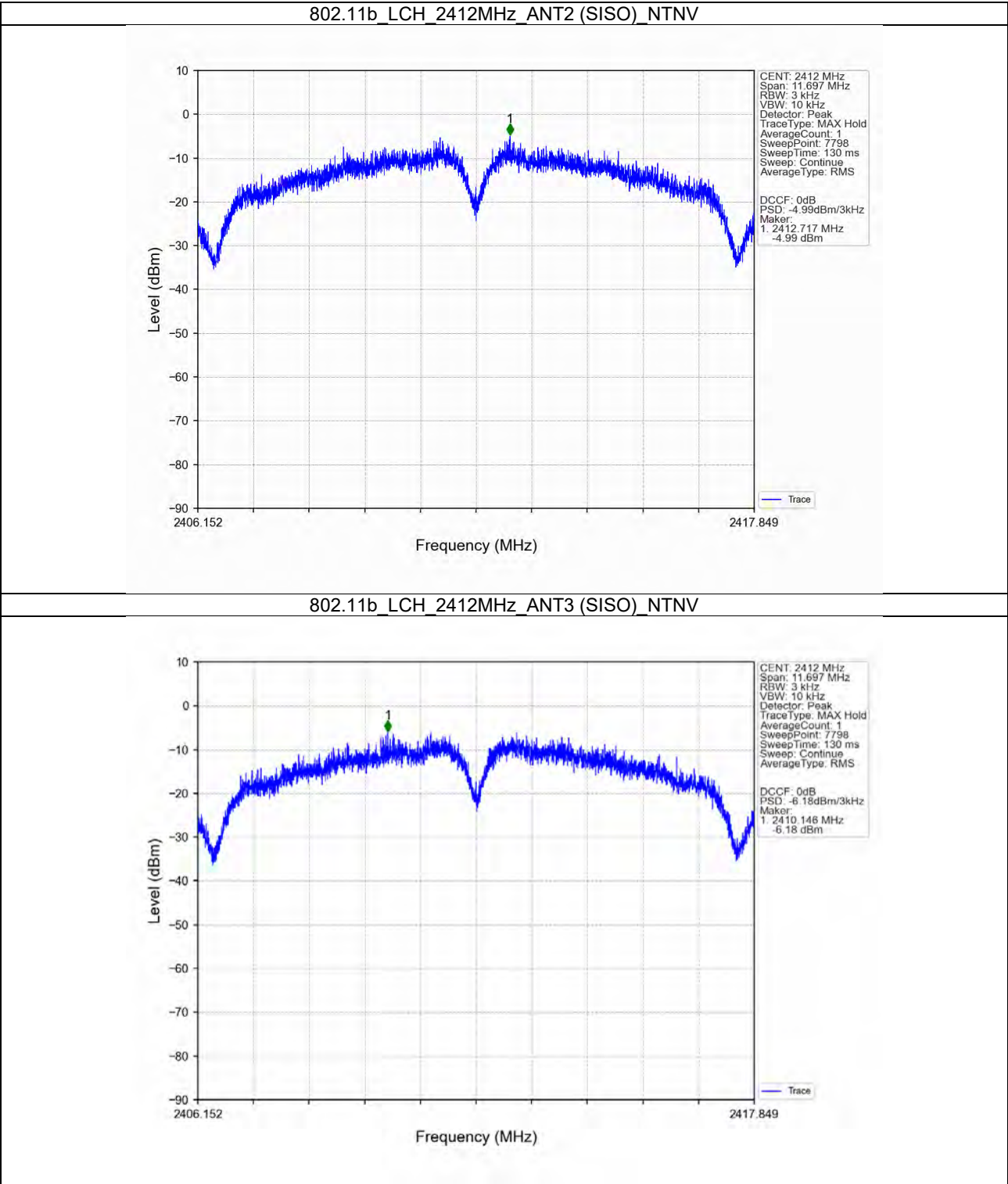


SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 46 of 180

4.2 Test Graph

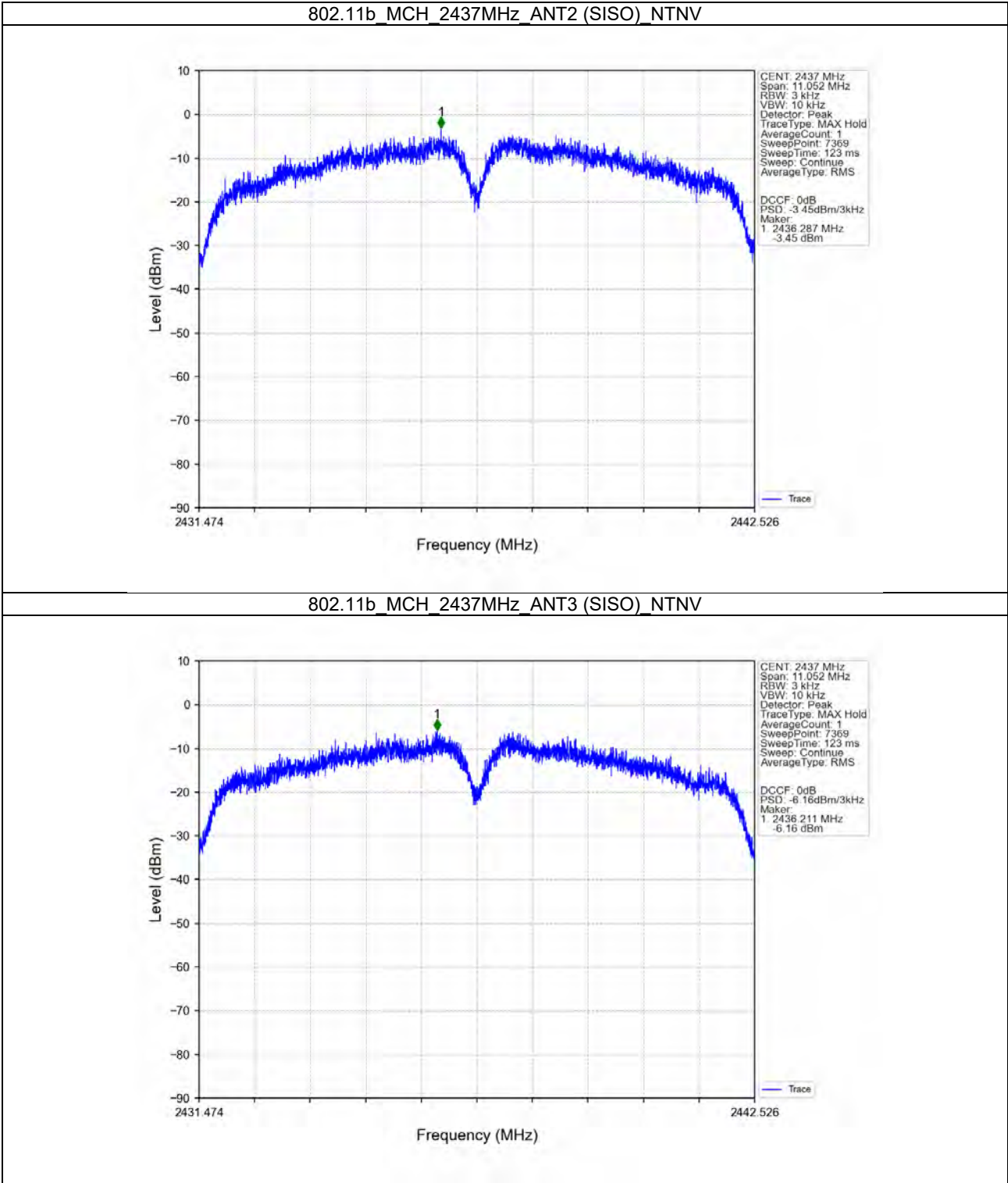
4.2.1 PSD





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

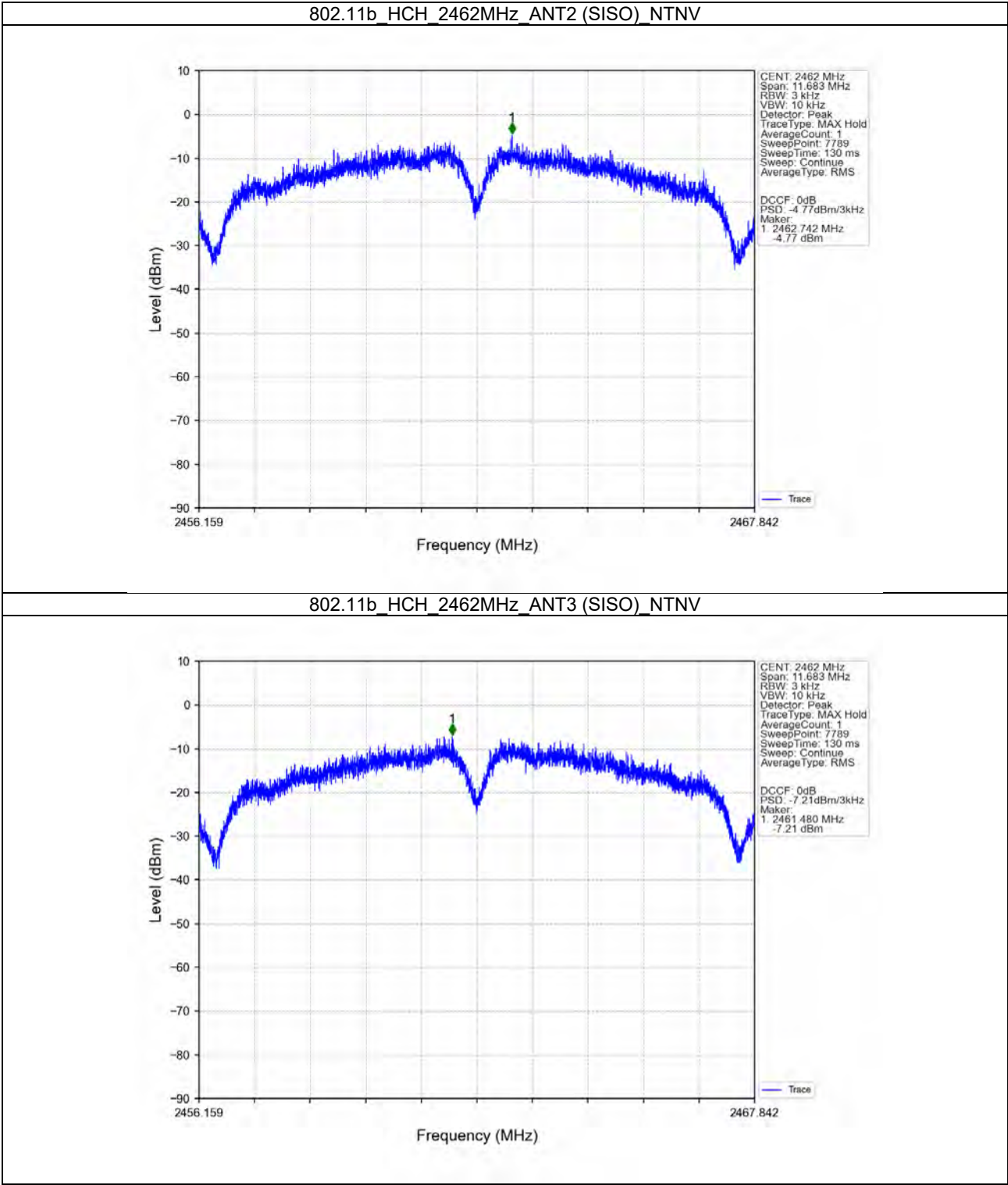
Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 47 of 180





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

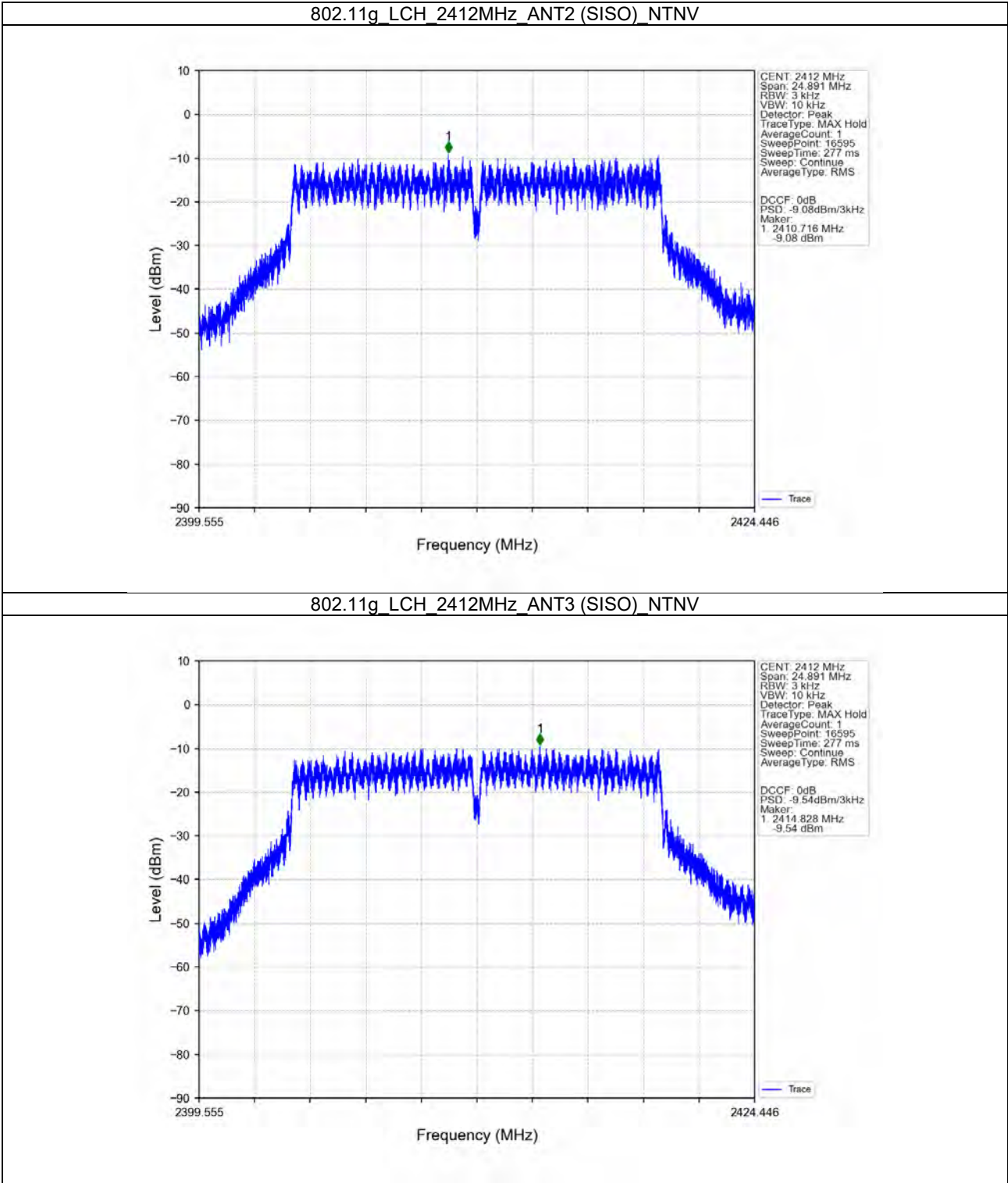
Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 48 of 180





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

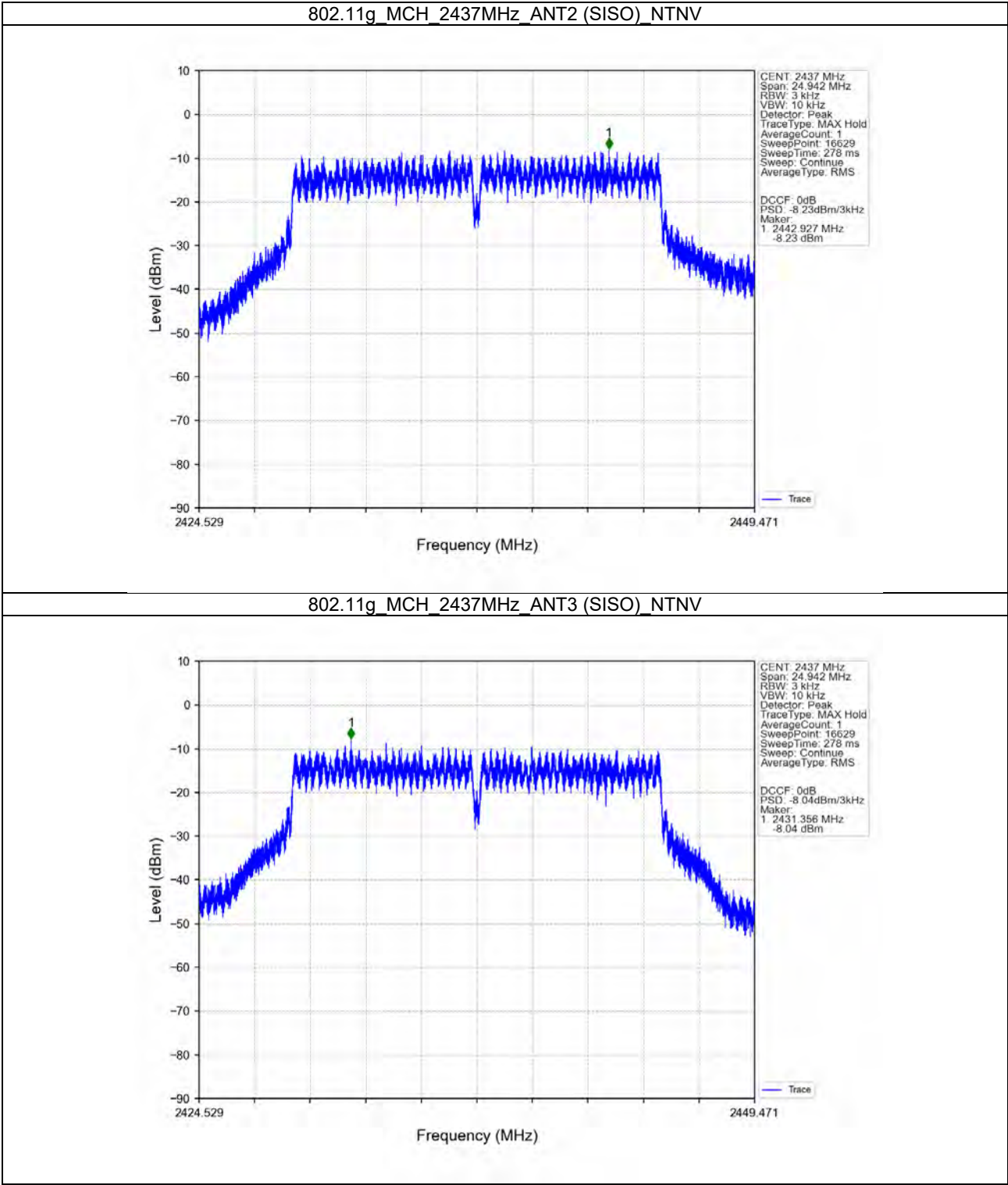
Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 49 of 180





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

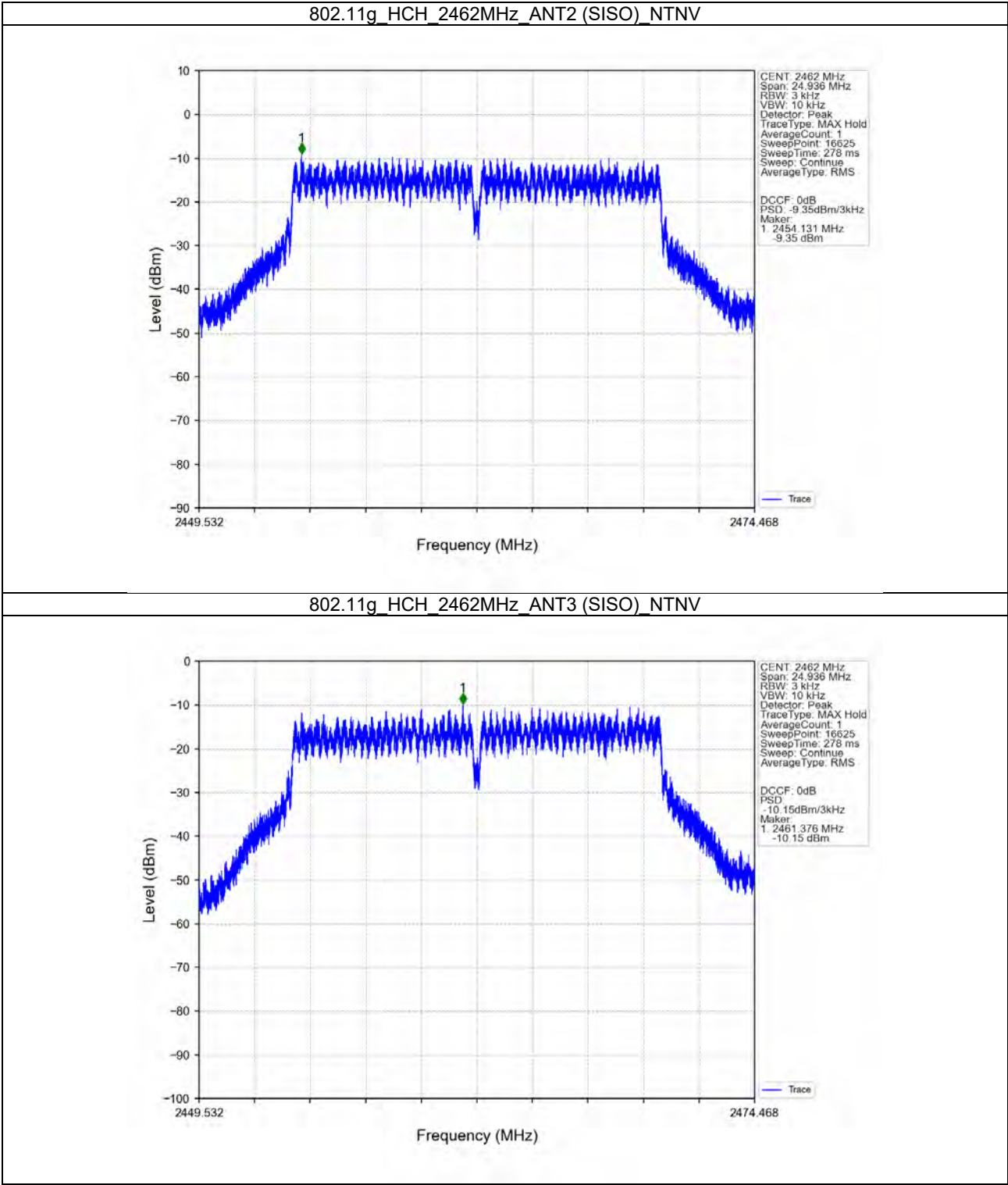
Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 50 of 180





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 51 of 180

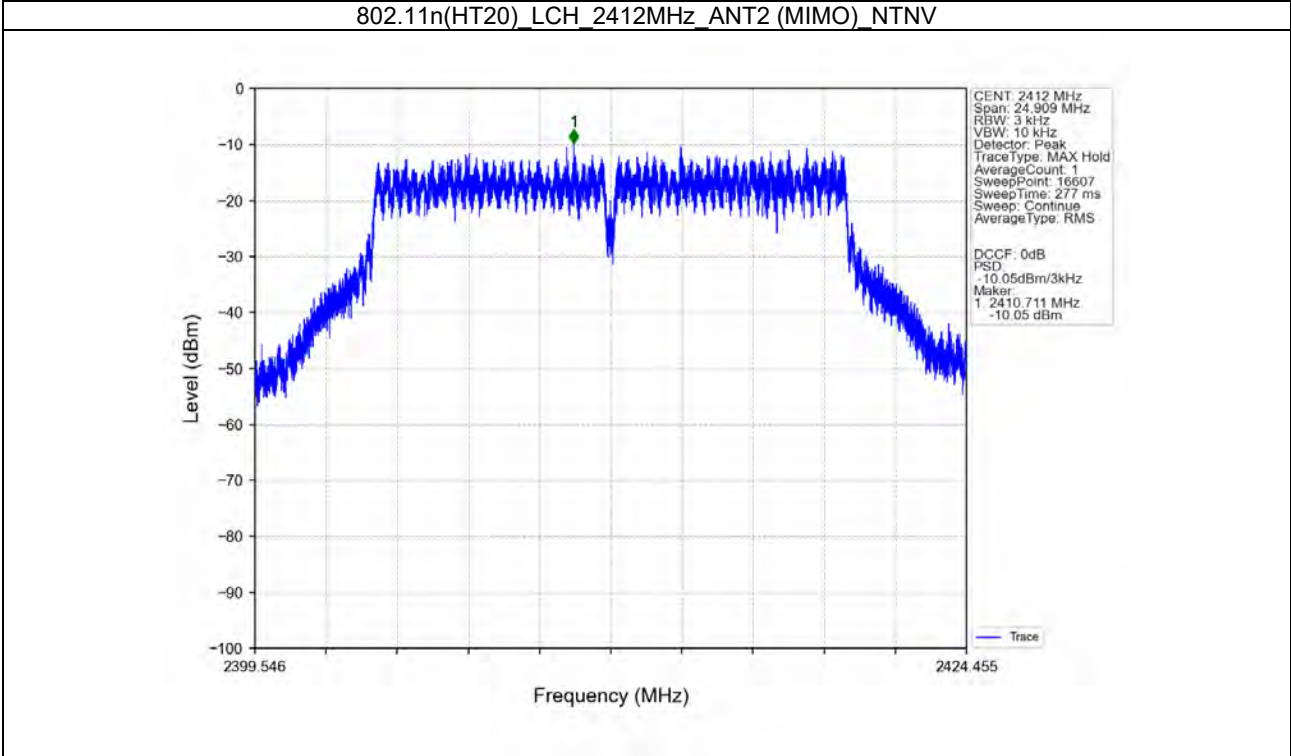




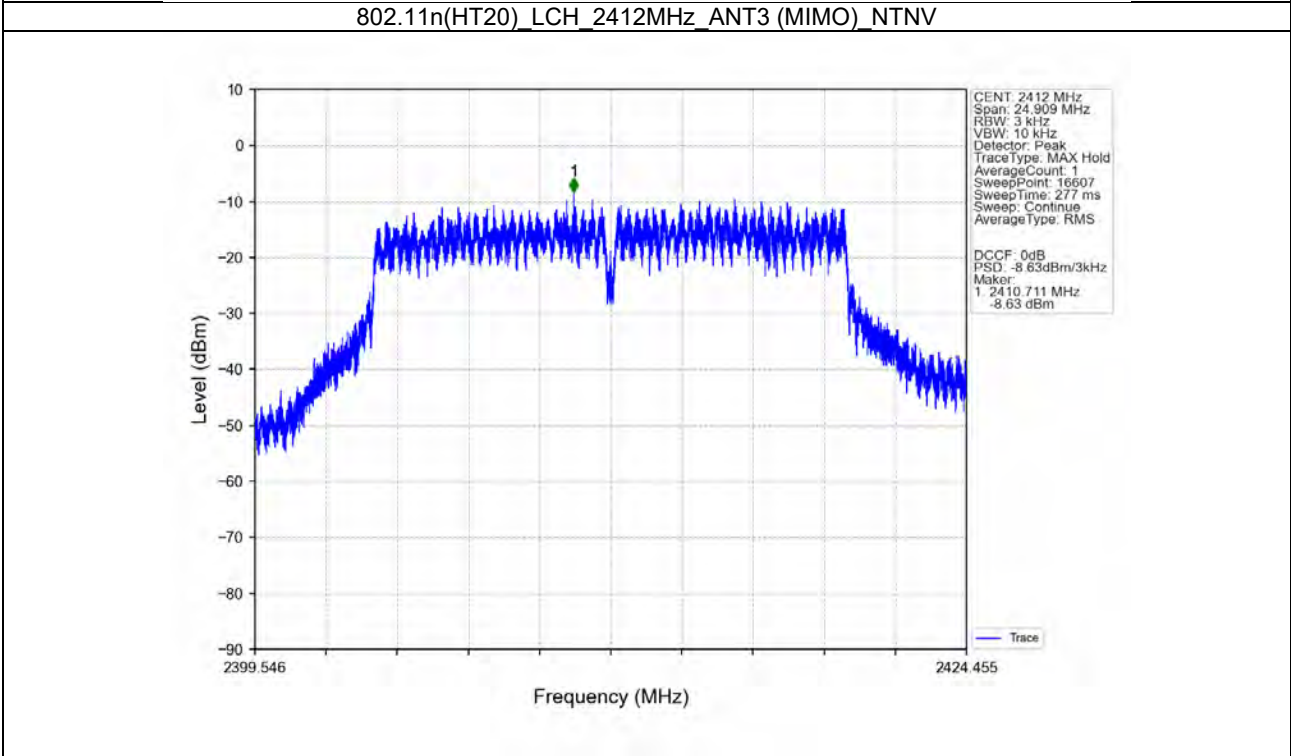
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 52 of 180

802.11n(HT20)\_LCH\_2412MHz\_ANT2 (MIMO)\_NTNV



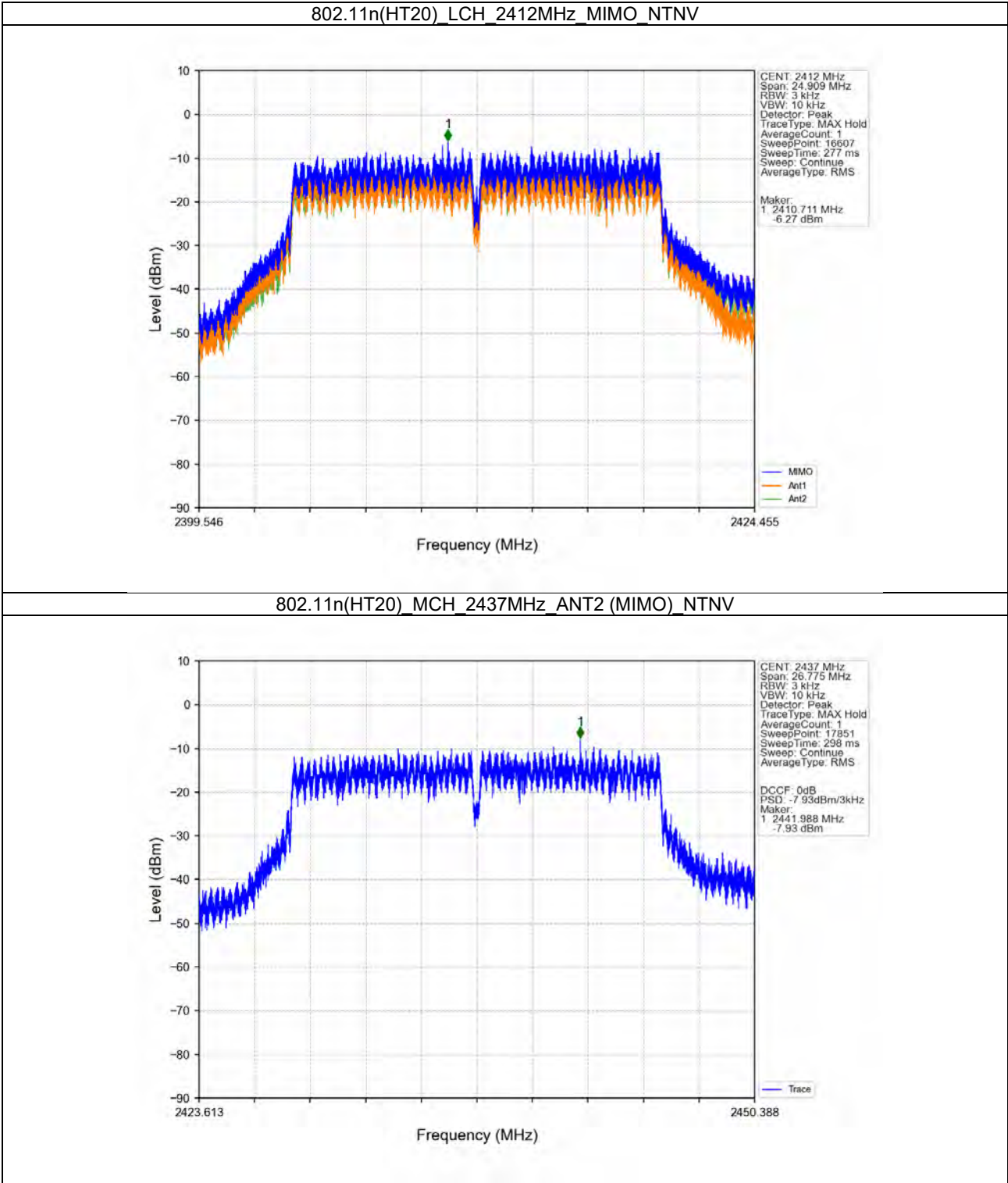
802.11n(HT20)\_LCH\_2412MHz\_ANT3 (MIMO)\_NTNV





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 53 of 180

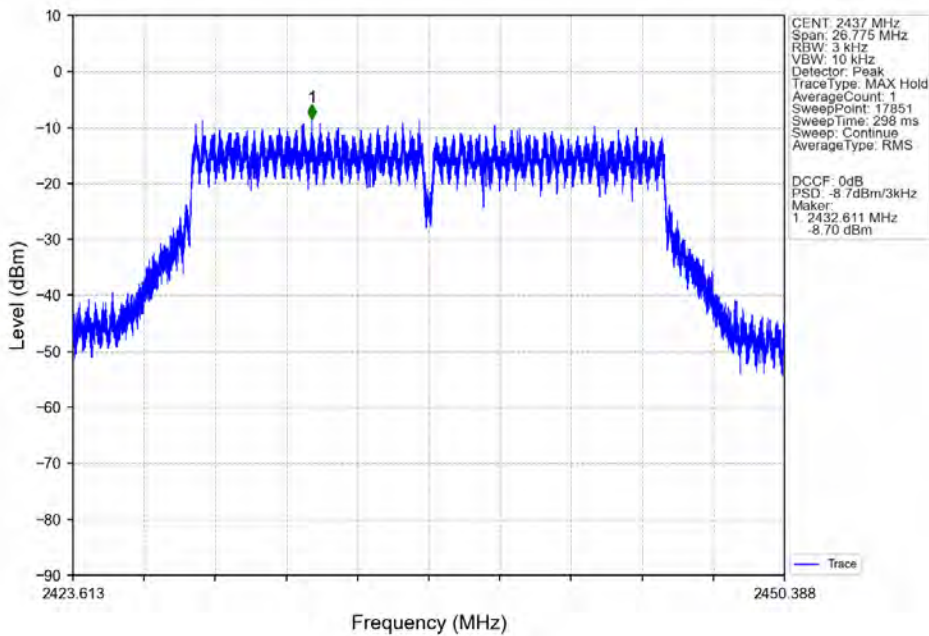




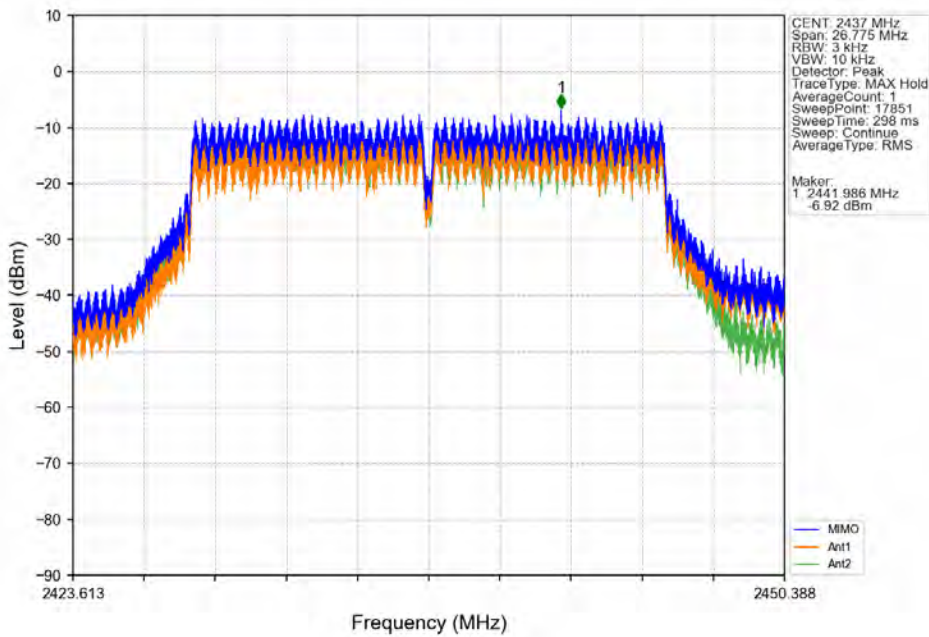
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 54 of 180

802.11n(HT20)\_MCH\_2437MHz\_ANT3 (MIMO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_MIMO\_NTNV

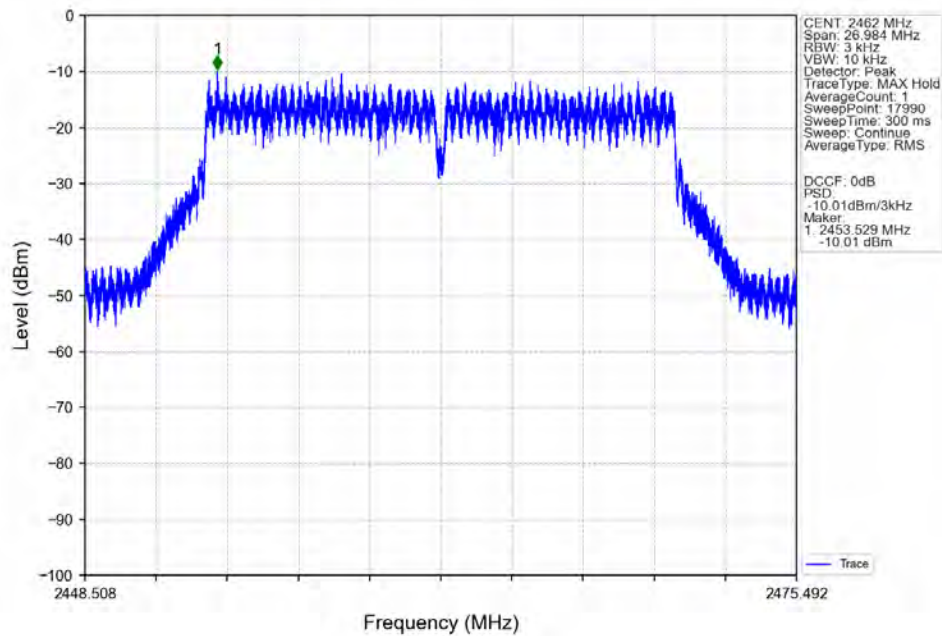




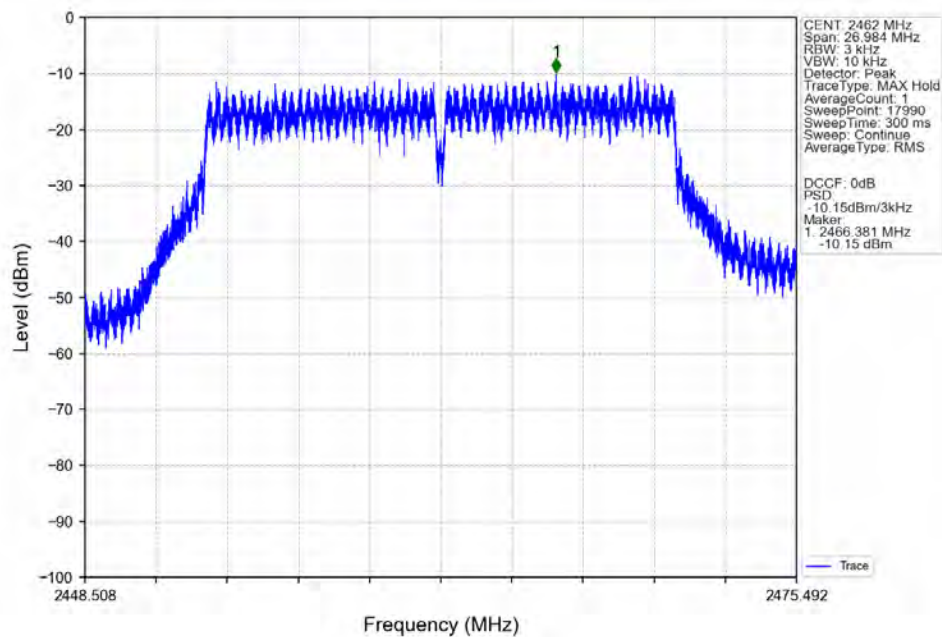
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 55 of 180

802.11n(HT20)\_HCH\_2462MHz\_ANT2 (MIMO)\_NTNV



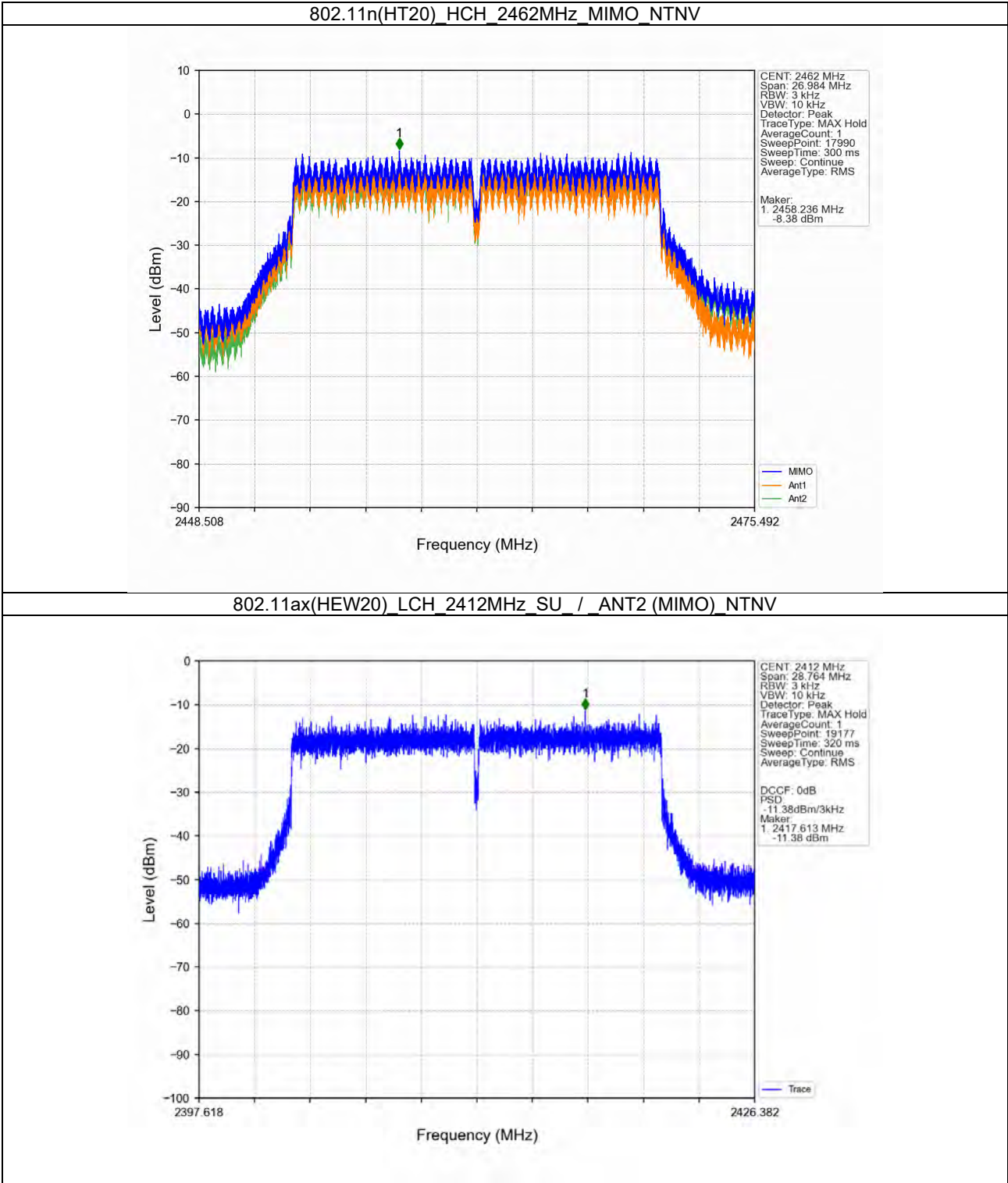
802.11n(HT20)\_HCH\_2462MHz\_ANT3 (MIMO)\_NTNV





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

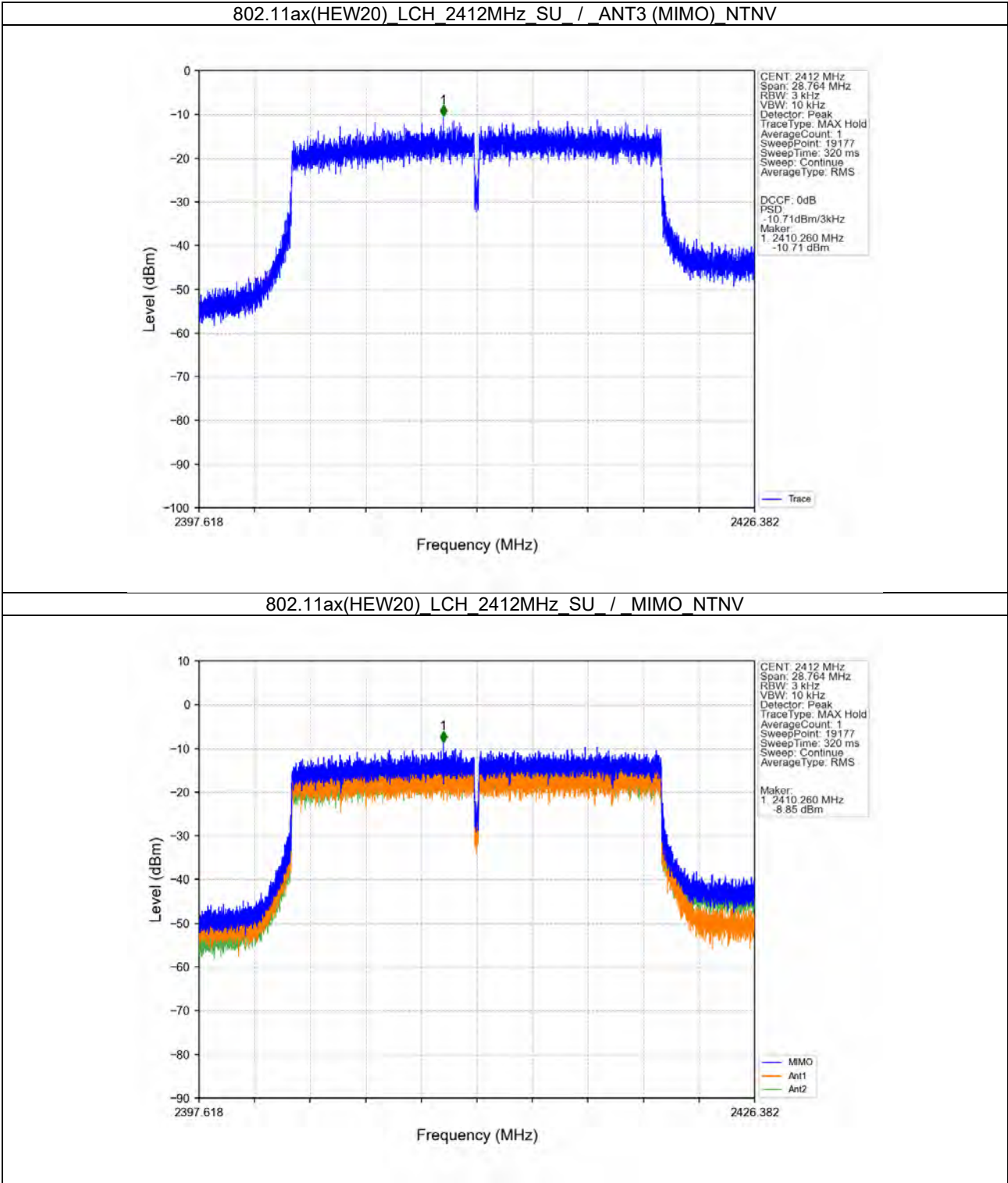
Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 56 of 180





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 57 of 180

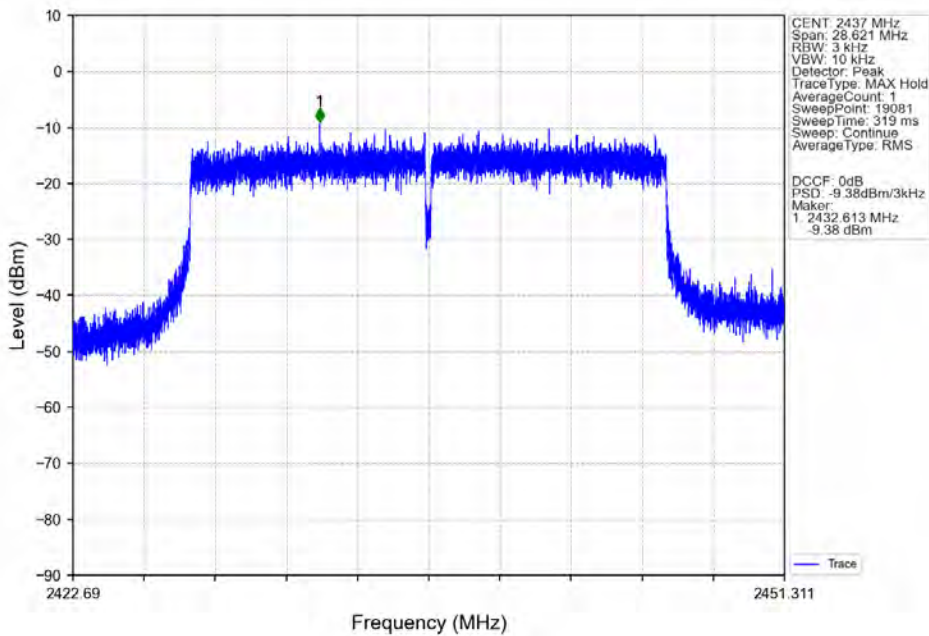




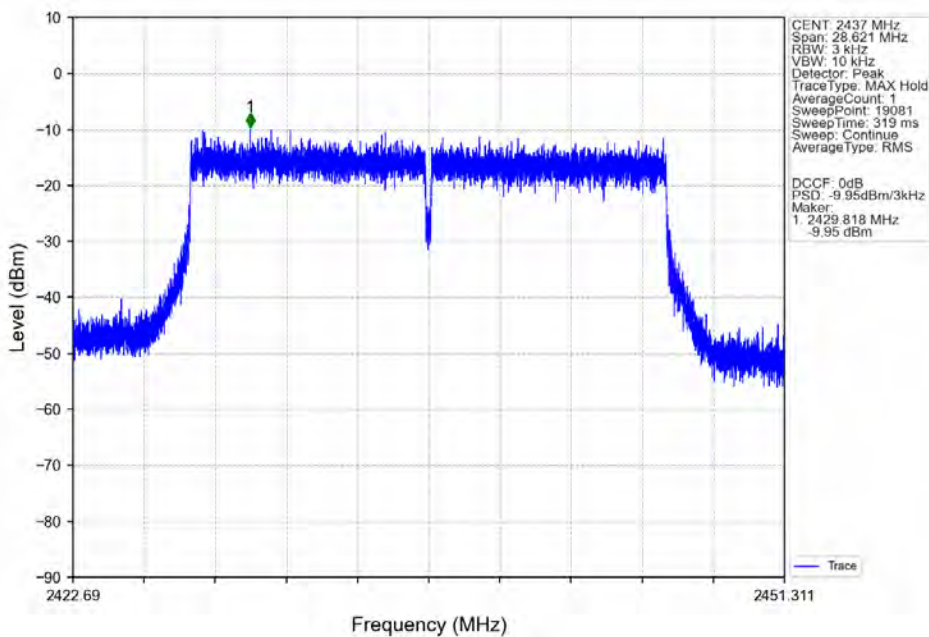
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 58 of 180

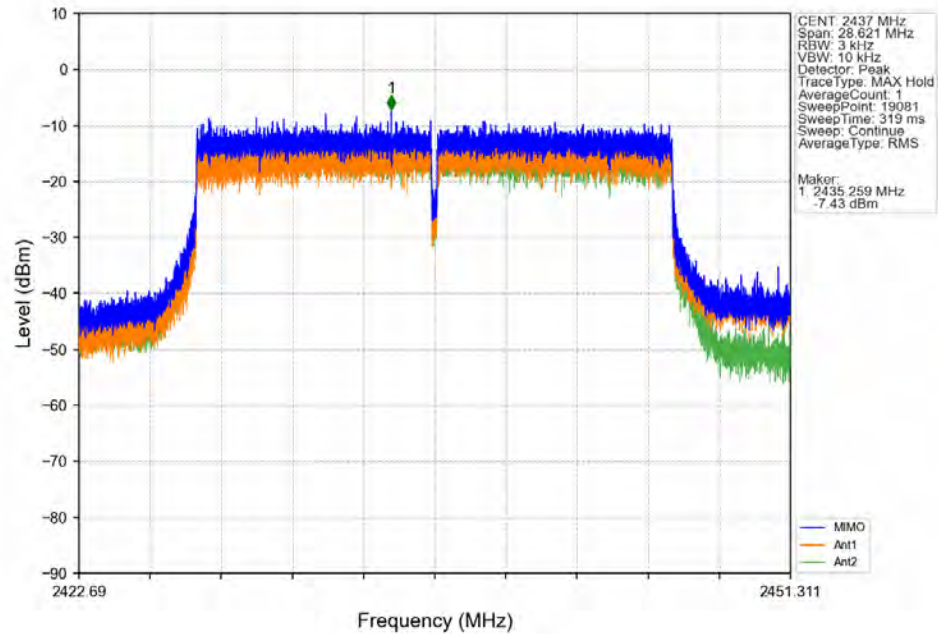
802.11ax(HEW20) MCH\_2437MHz\_SU / ANT2 (MIMO) NTNv



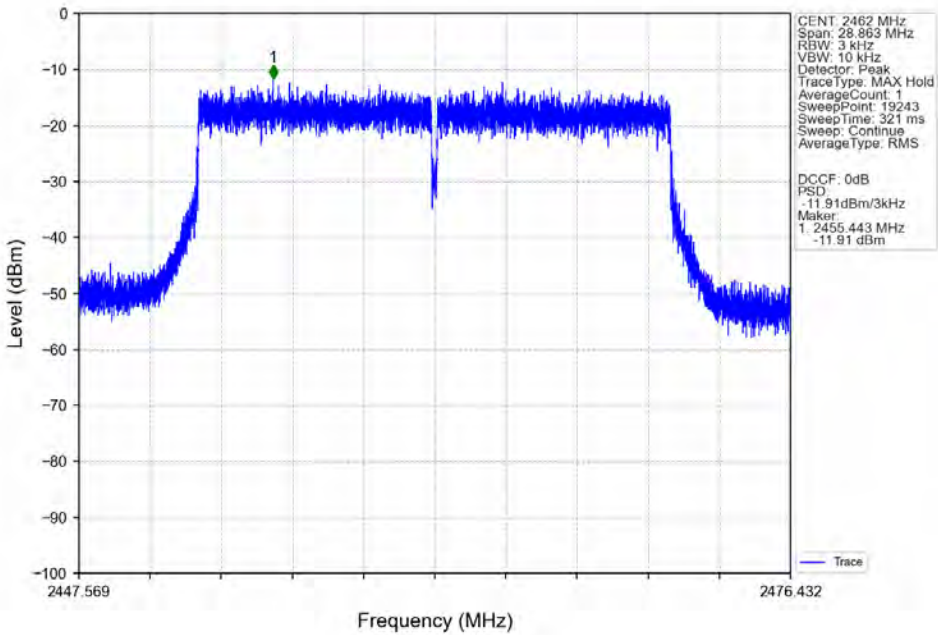
802.11ax(HEW20) MCH\_2437MHz\_SU / ANT3 (MIMO) NTNv



802.11ax(HEW20)\_MCH\_2437MHz\_SU / MIMO\_NTNV



802.11ax(HEW20)\_HCH\_2462MHz\_SU / ANT2 (MIMO) NTN

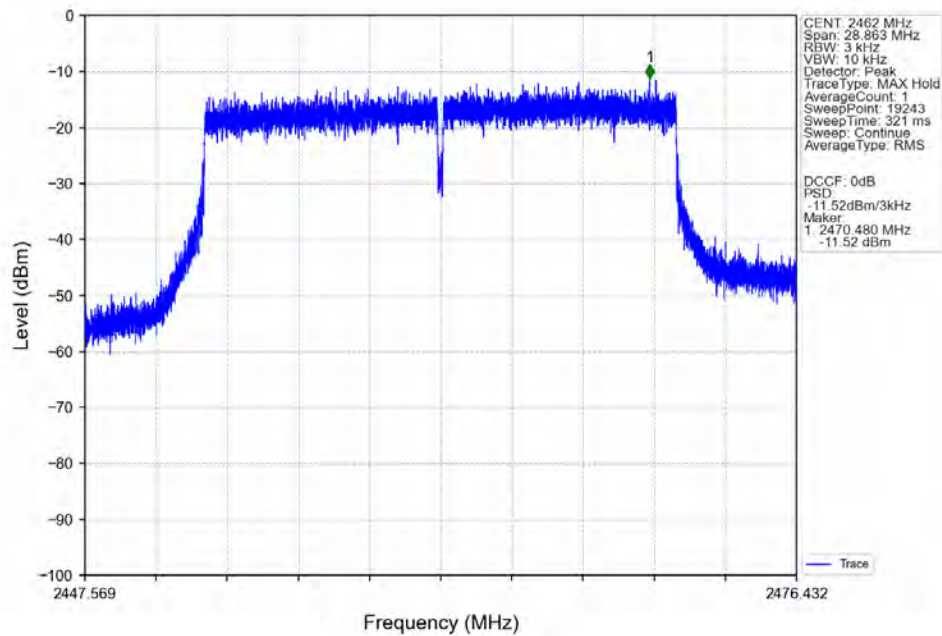




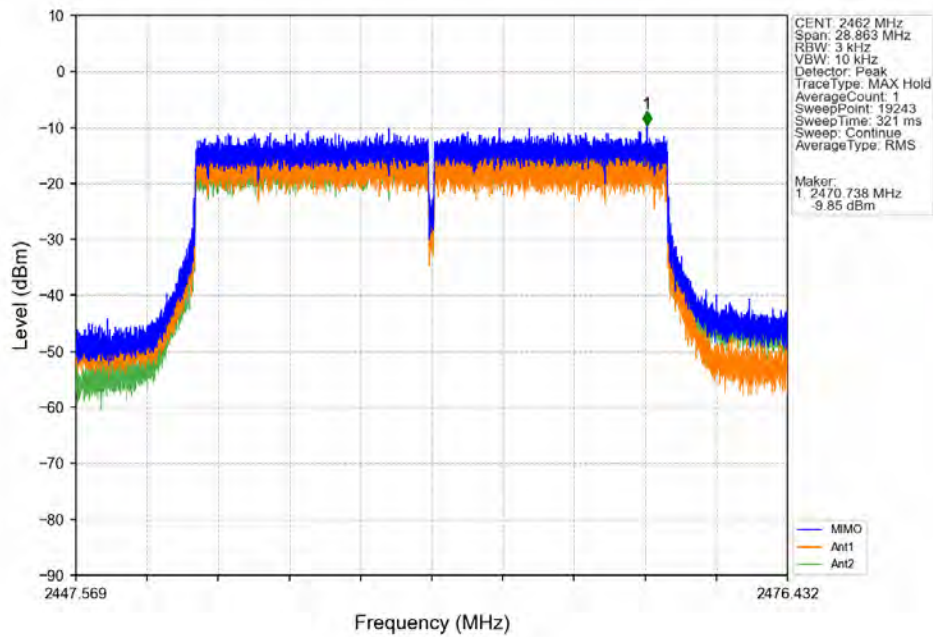
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 60 of 180

802.11ax(HEW20) HCH 2462MHz SU / ANT3 (MIMO) NTN



802.11ax(HEW20) HCH 2462MHz SU / MIMO NTN





## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 61 of 180

### 5. Unwanted Emissions In Non-restricted Frequency Bands

#### 5.1 Test Result

##### 5.1.1 Ref

| Mode                                                                                                                                            | TX Type | Frequency (MHz) | RU | RU Pos | ANT | Level of Reference (dBm) |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|----|--------|-----|--------------------------|
| 802.11b                                                                                                                                         | SISO    | 2412            | /  | /      | 2   | 8.30                     |
|                                                                                                                                                 |         |                 |    |        | 3   | 8.47                     |
|                                                                                                                                                 |         | 2437            | /  | /      | 2   | 10.48                    |
|                                                                                                                                                 |         |                 |    |        | 3   | 9.64                     |
|                                                                                                                                                 |         | 2462            | /  | /      | 2   | 8.50                     |
|                                                                                                                                                 |         |                 |    |        | 3   | 7.77                     |
| 802.11g                                                                                                                                         | SISO    | 2412            | /  | /      | 2   | 4.54                     |
|                                                                                                                                                 |         |                 |    |        | 3   | 5.35                     |
|                                                                                                                                                 |         | 2437            | /  | /      | 2   | 6.15                     |
|                                                                                                                                                 |         |                 |    |        | 3   | 6.05                     |
|                                                                                                                                                 |         | 2462            | /  | /      | 2   | 4.64                     |
|                                                                                                                                                 |         |                 |    |        | 3   | 4.42                     |
| 802.11n (HT20)                                                                                                                                  | MIMO    | 2412            | /  | /      | 2   | 3.25                     |
|                                                                                                                                                 |         |                 |    |        | 3   | 4.82                     |
|                                                                                                                                                 |         | 2437            | /  | /      | 2   | 4.77                     |
|                                                                                                                                                 |         |                 |    |        | 3   | 4.85                     |
|                                                                                                                                                 |         | 2462            | /  | /      | 2   | 3.30                     |
|                                                                                                                                                 |         |                 |    |        | 3   | 4.37                     |
| 802.11ax (HEW20)                                                                                                                                | MIMO    | 2412            | SU | /      | 2   | 2.43                     |
|                                                                                                                                                 |         |                 |    |        | 3   | 3.71                     |
|                                                                                                                                                 |         | 2437            | SU | /      | 2   | 4.36                     |
|                                                                                                                                                 |         |                 |    |        | 3   | 3.75                     |
|                                                                                                                                                 |         | 2462            | SU | /      | 2   | 2.49                     |
|                                                                                                                                                 |         |                 |    |        | 3   | 3.38                     |
| Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level. |         |                 |    |        |     |                          |

##### 5.1.2 CSE

| Mode           | TX Type | Frequency (MHz) | RU | RU Pos | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|----|--------|-----|--------------------------|-------------|---------|
| 802.11b        | SISO    | 2412            | /  | /      | 2   | 10.48                    | -9.52       | Pass    |
|                |         |                 |    |        | 3   | 9.64                     | -10.36      | Pass    |
|                |         | 2437            | /  | /      | 2   | 10.48                    | -9.52       | Pass    |
|                |         |                 |    |        | 3   | 9.64                     | -10.36      | Pass    |
|                |         | 2462            | /  | /      | 2   | 10.48                    | -9.52       | Pass    |
|                |         |                 |    |        | 3   | 9.64                     | -10.36      | Pass    |
| 802.11g        | SISO    | 2412            | /  | /      | 2   | 6.15                     | -13.85      | Pass    |
|                |         |                 |    |        | 3   | 6.05                     | -13.95      | Pass    |
|                |         | 2437            | /  | /      | 2   | 6.15                     | -13.85      | Pass    |
|                |         |                 |    |        | 3   | 6.05                     | -13.95      | Pass    |
|                |         | 2462            | /  | /      | 2   | 6.15                     | -13.85      | Pass    |
|                |         |                 |    |        | 3   | 6.05                     | -13.95      | Pass    |
| 802.11n (HT20) | MIMO    | 2412            | /  | /      | 2   | 4.77                     | -15.23      | Pass    |
|                |         |                 |    |        | 3   | 4.85                     | -15.15      | Pass    |
|                |         | 2437            | /  | /      | 2   | 4.77                     | -15.23      | Pass    |
|                |         |                 |    |        | 3   | 4.85                     | -15.15      | Pass    |
|                |         | 2462            | /  | /      | 2   | 4.77                     | -15.23      | Pass    |
|                |         |                 |    |        | 2   | 4.77                     | -15.23      | Pass    |



Rev.: Amendment 02

Page: 62 of 180

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

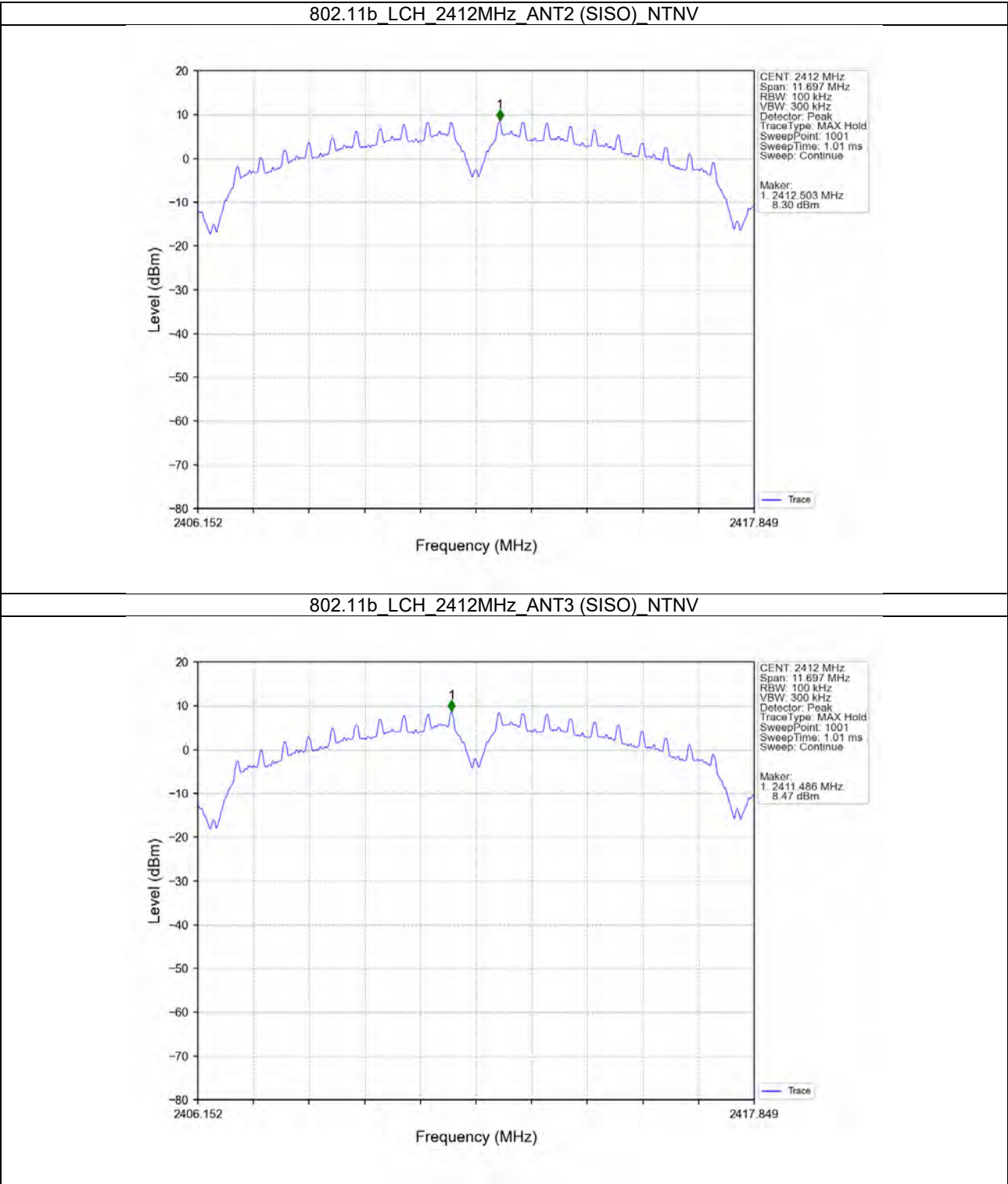


SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 63 of 180

5.2 Test Graph

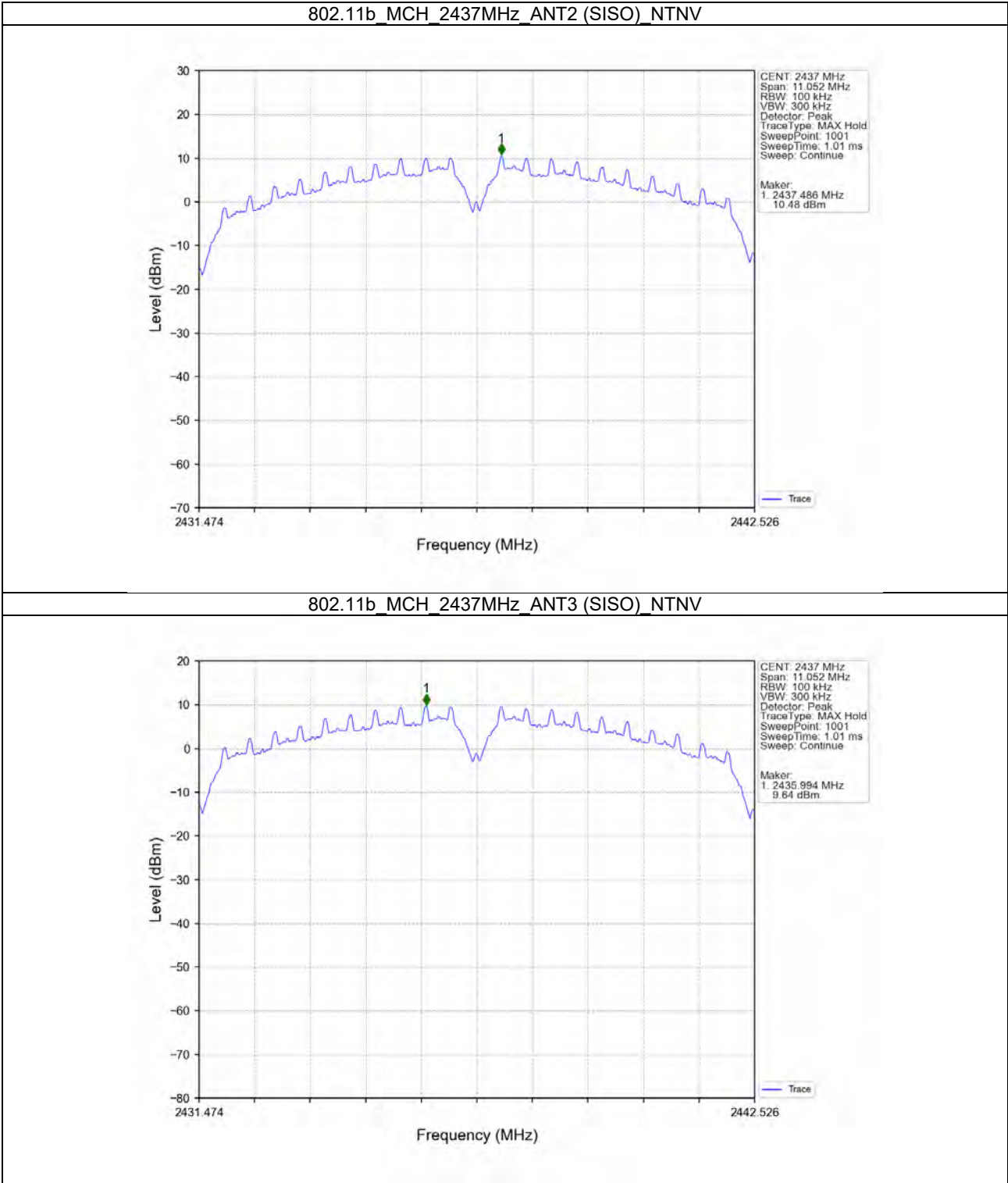
5.2.1 Ref





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

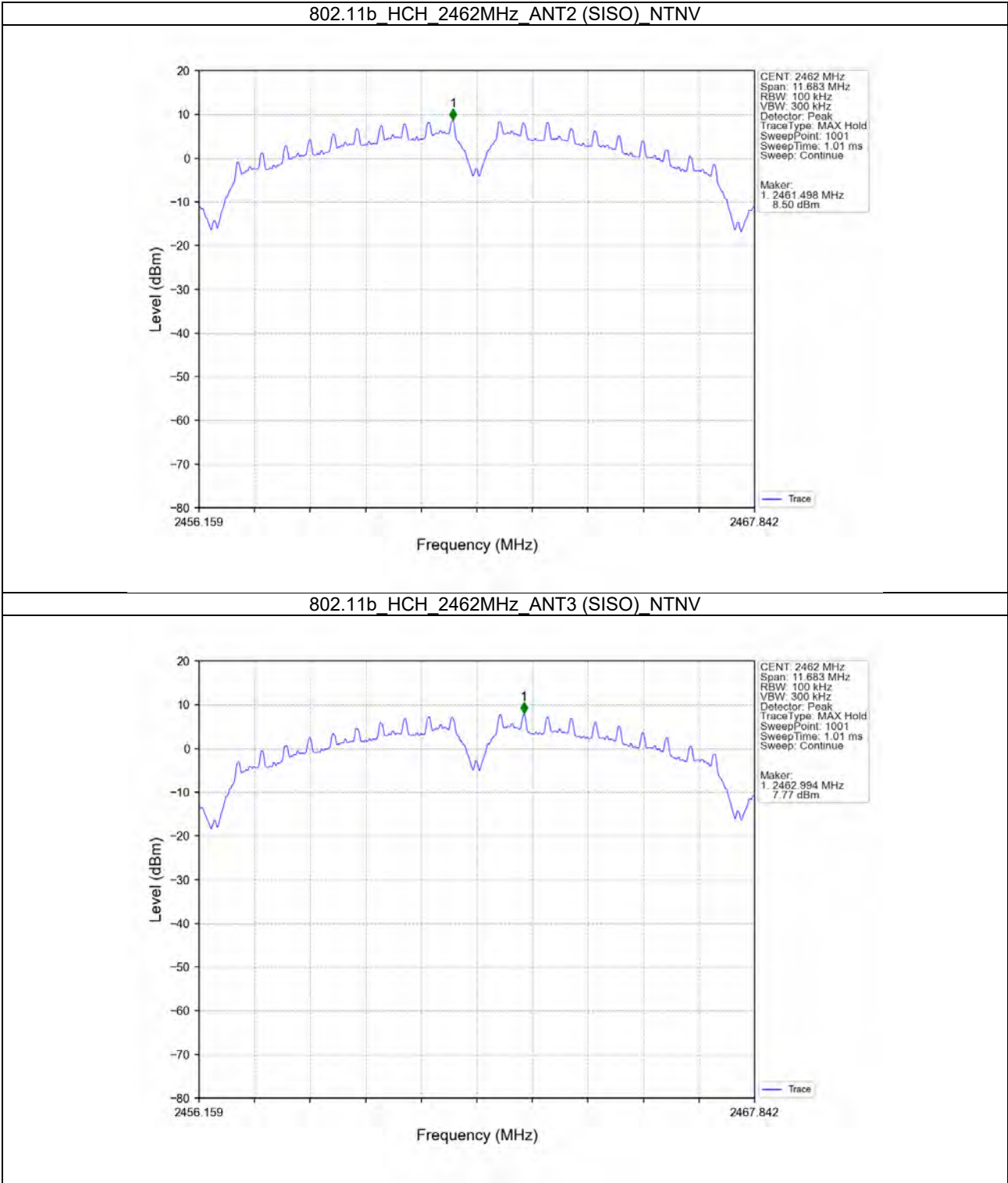
Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 64 of 180





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

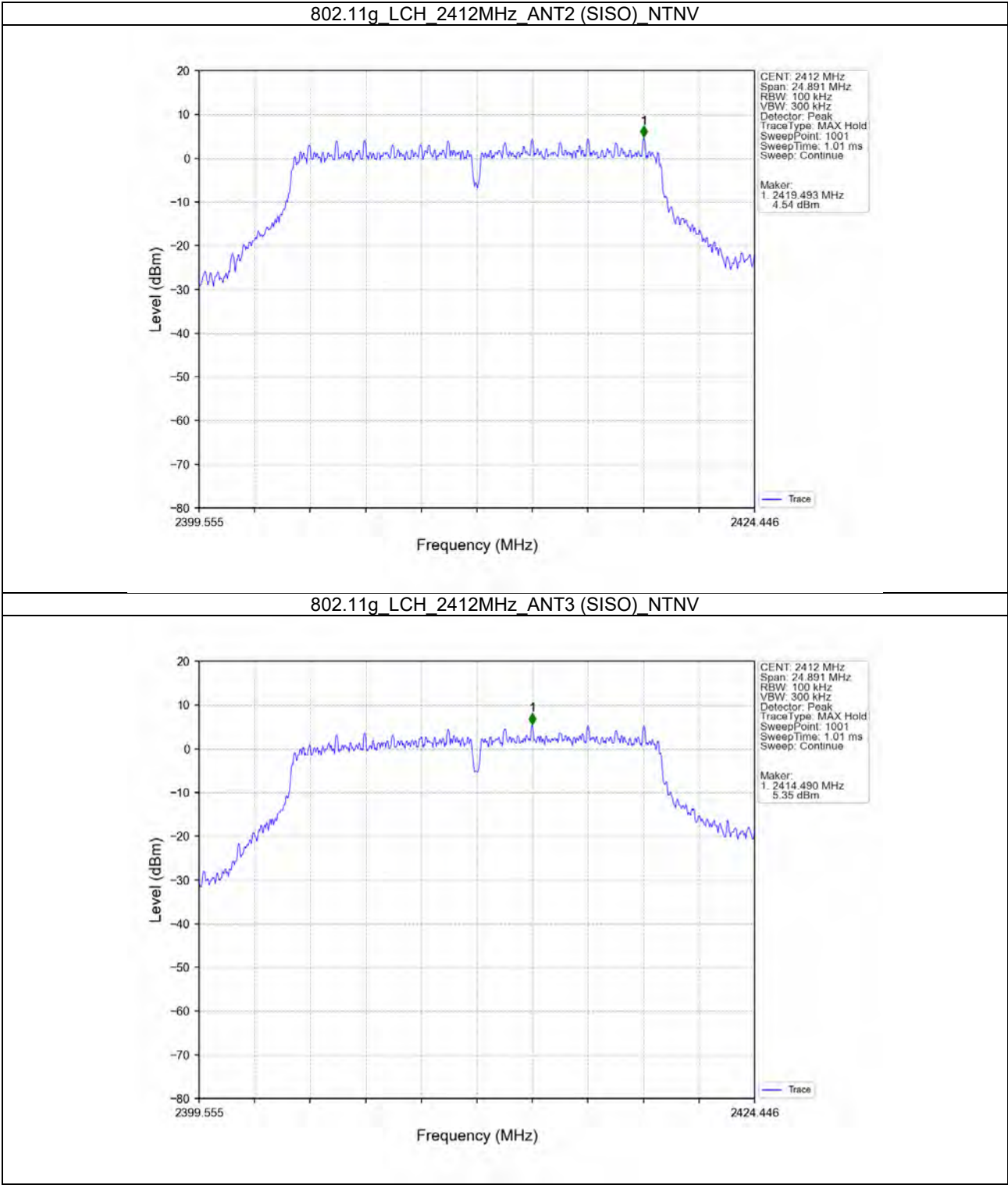
Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 65 of 180





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

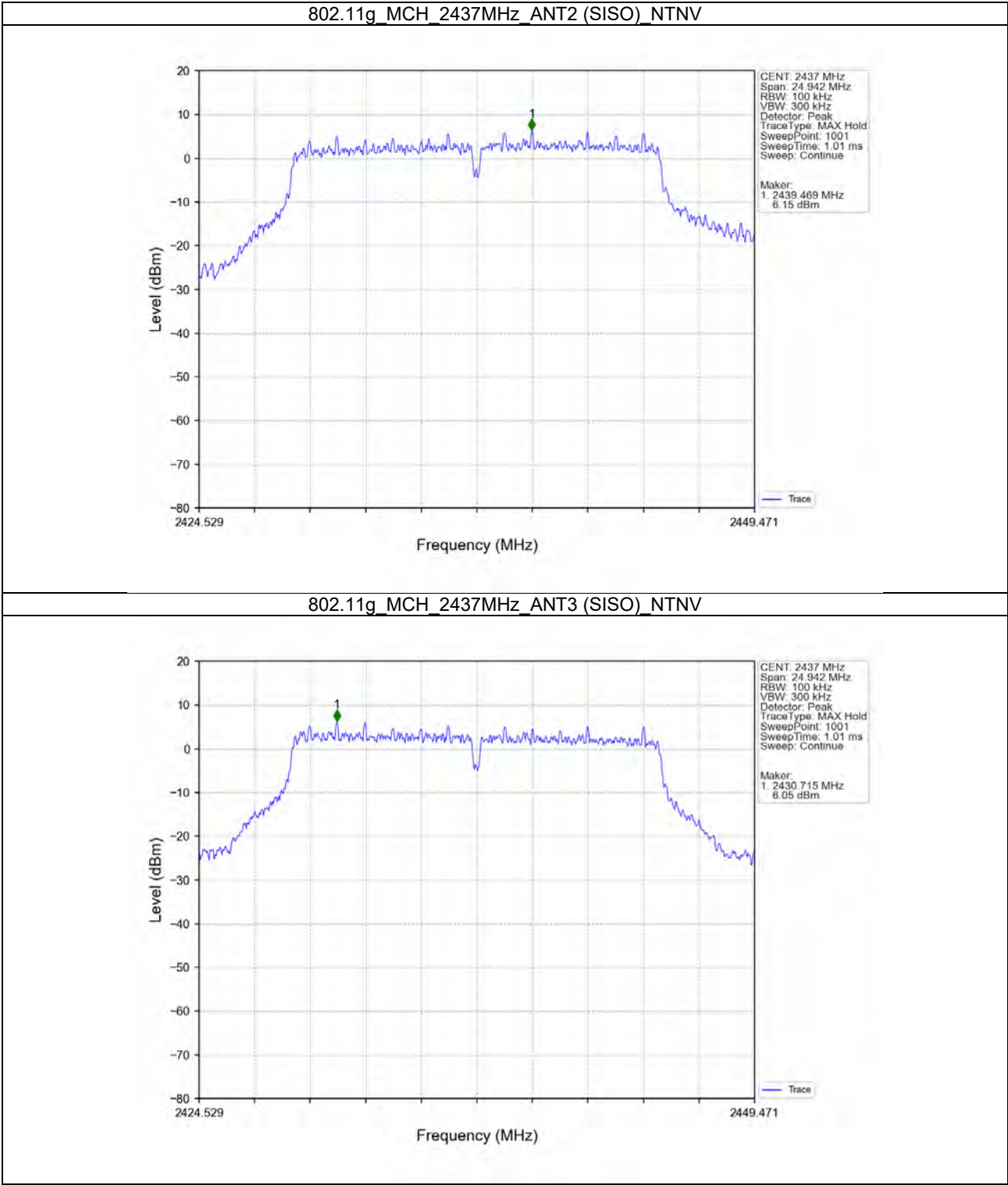
Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 66 of 180





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 67 of 180

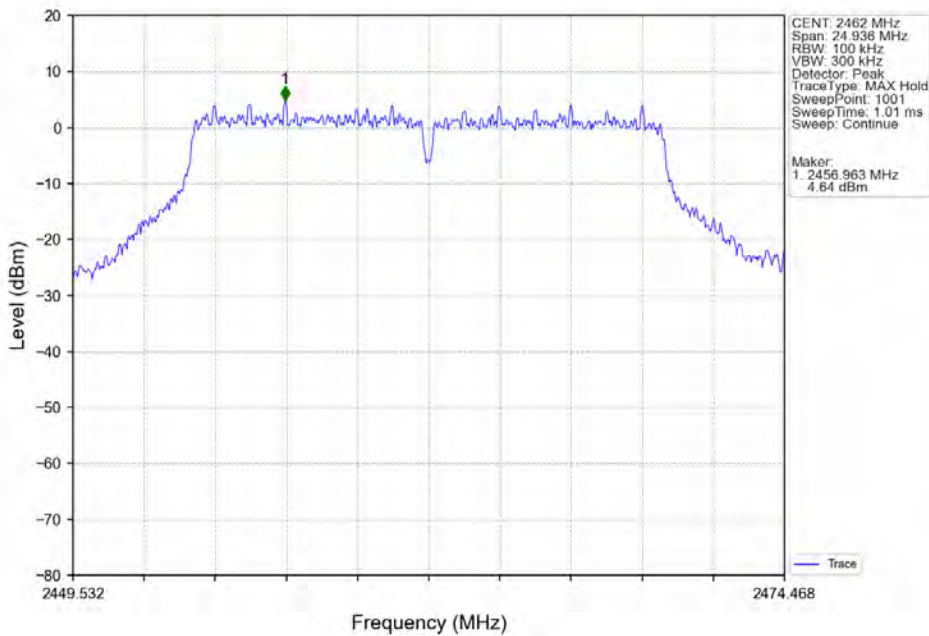




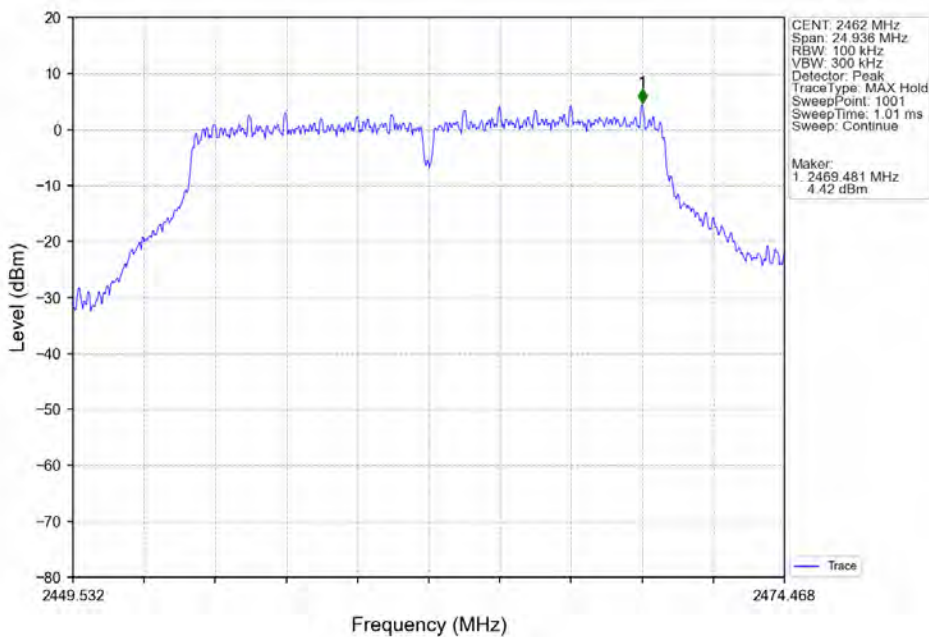
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 68 of 180

802.11g\_HCH\_2462MHz\_ANT2 (SISO)\_NTNV



802.11g\_HCH\_2462MHz\_ANT3 (SISO)\_NTNV

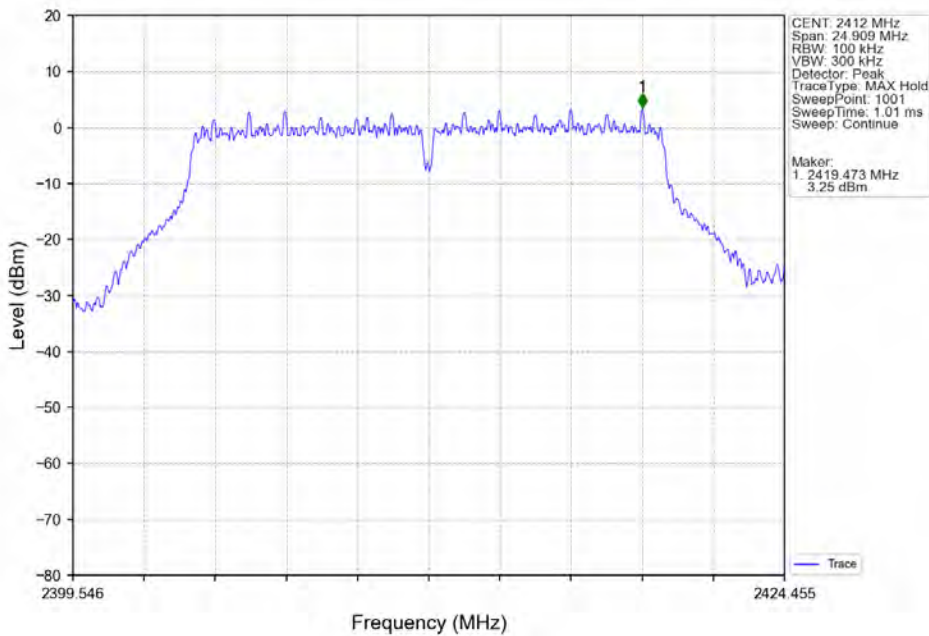




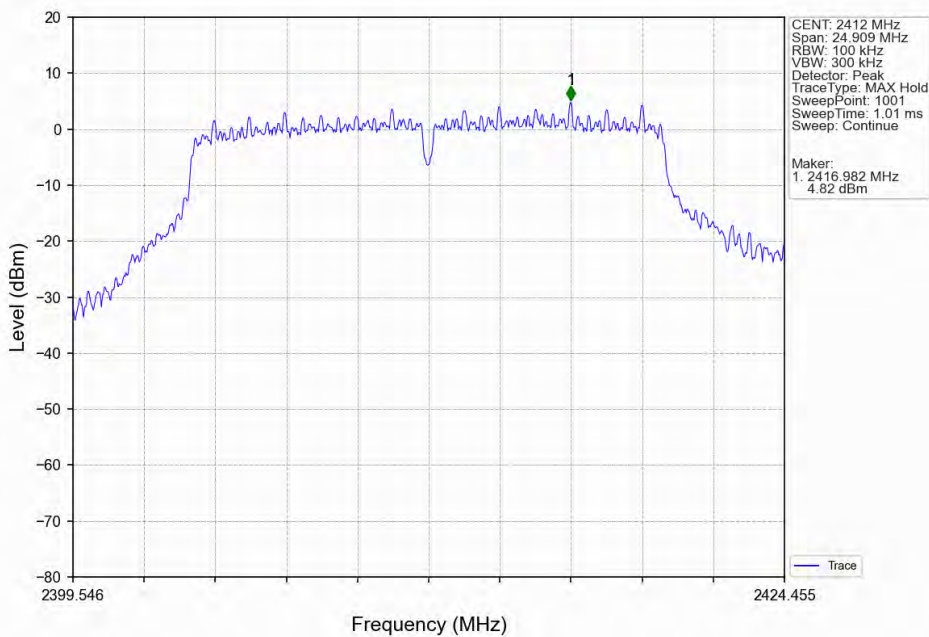
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 69 of 180

802.11n(HT20)\_LCH\_2412MHz\_ANT2 (MIMO)\_NTNV



802.11n(HT20)\_LCH\_2412MHz\_ANT3 (MIMO)\_NTNV

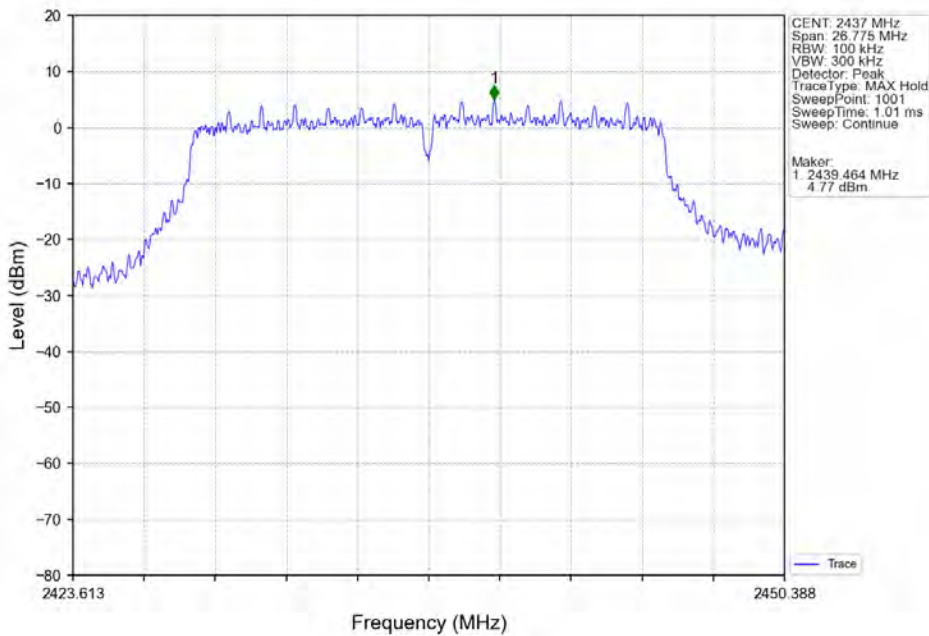




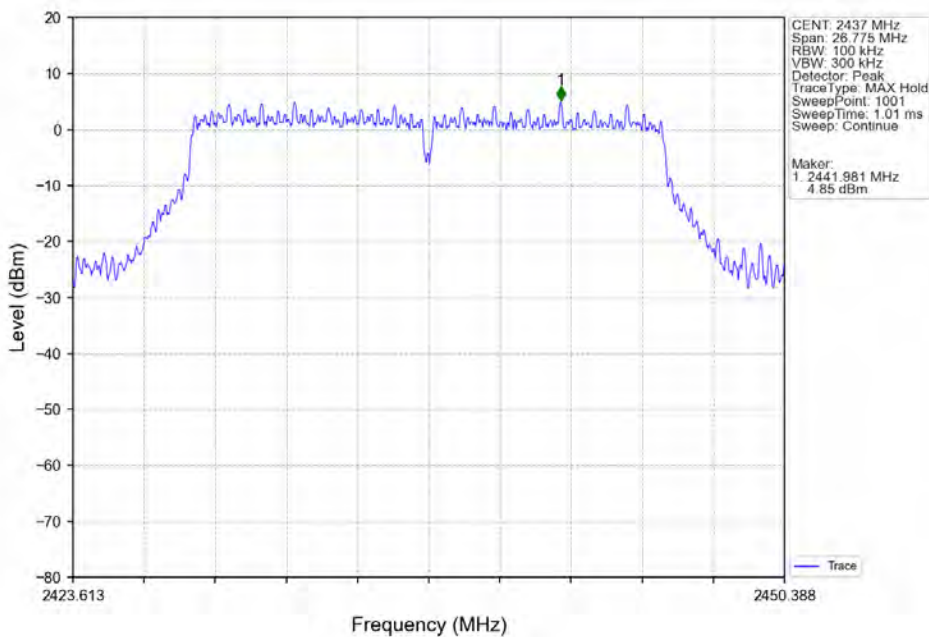
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 70 of 180

802.11n(HT20)\_MCH\_2437MHz\_ANT2 (MIMO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_ANT3 (MIMO)\_NTNV

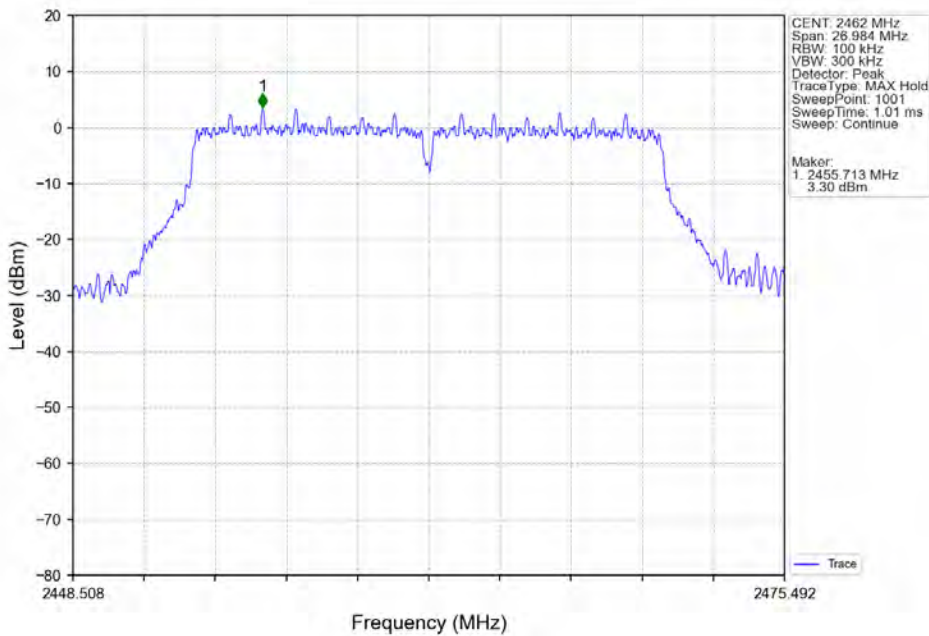




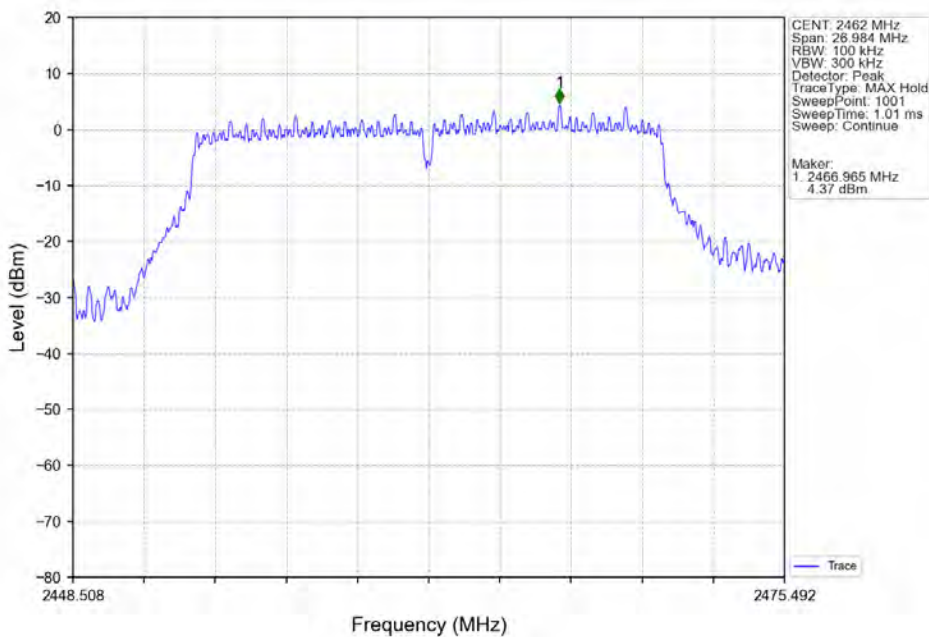
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 71 of 180

802.11n(HT20)\_HCH\_2462MHz\_ANT2 (MIMO)\_NTNV



802.11n(HT20)\_HCH\_2462MHz\_ANT3 (MIMO)\_NTNV

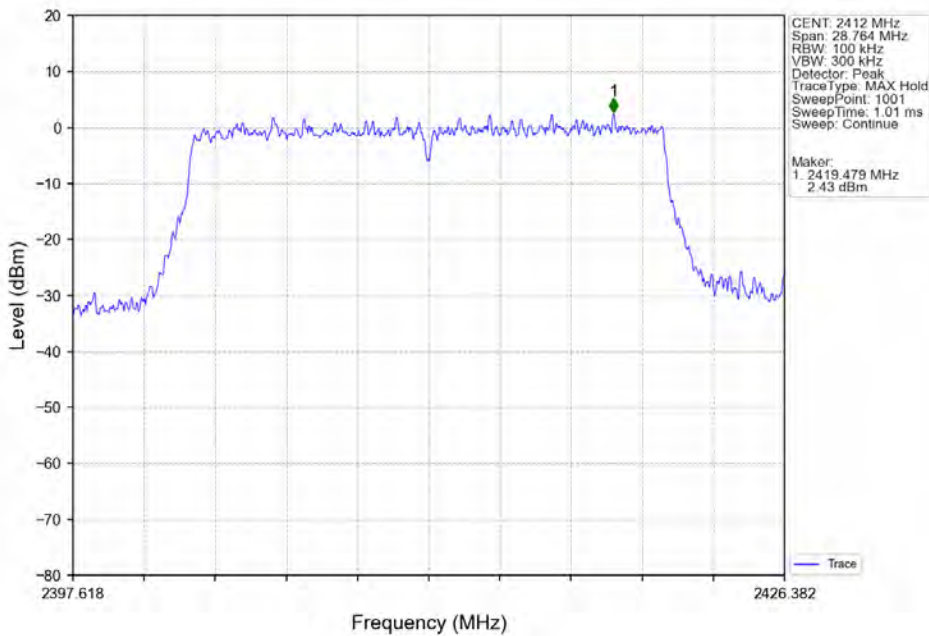




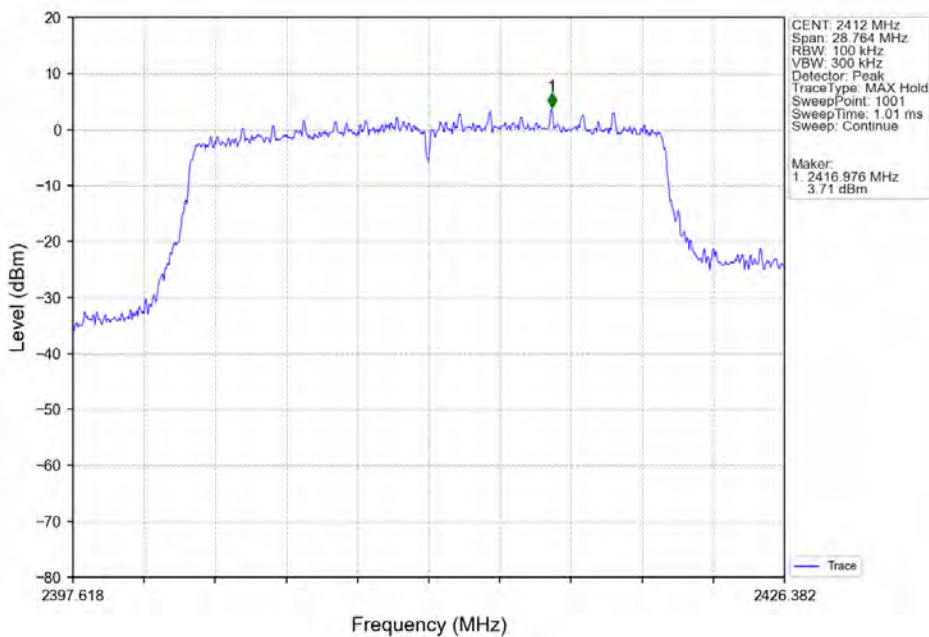
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 72 of 180

802.11ax(HEW20)\_LCH\_2412MHz\_SU\_ / \_ANT2 (MIMO)\_NTNV



802.11ax(HEW20)\_LCH\_2412MHz\_SU\_ / \_ANT3 (MIMO)\_NTNV

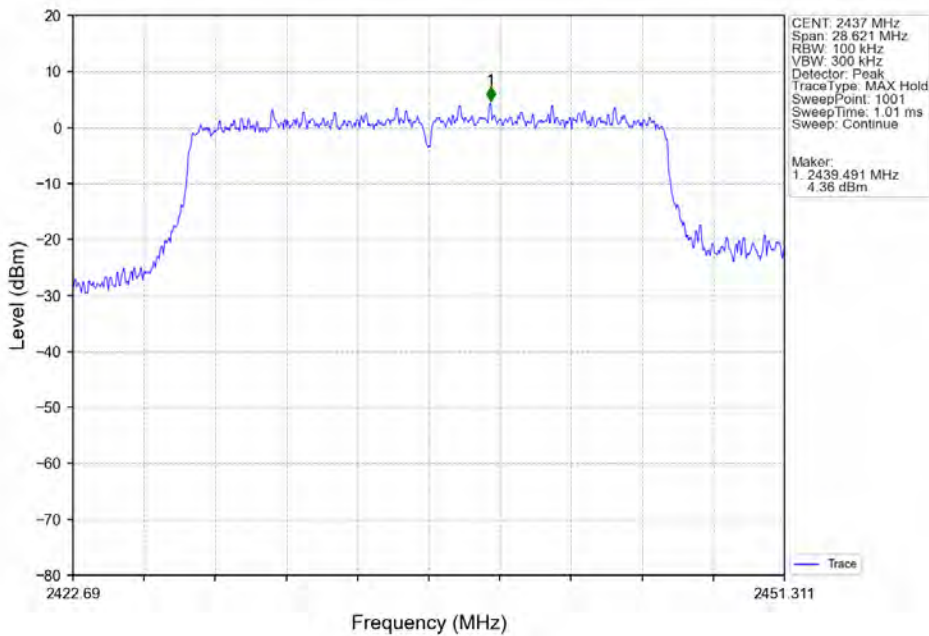




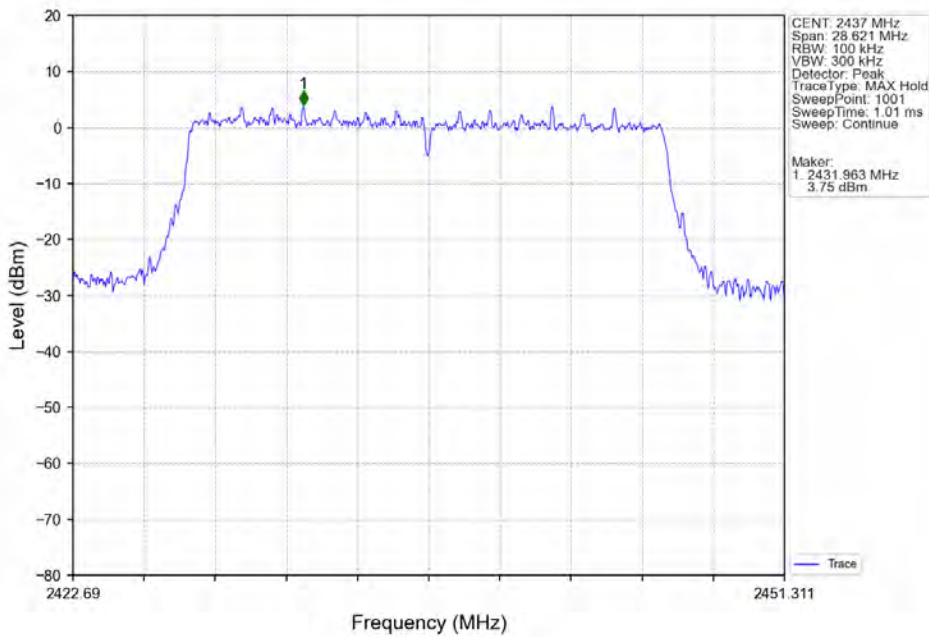
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 73 of 180

802.11ax(HEW20) MCH\_2437MHz\_SU / ANT2 (MIMO) NTNv



802.11ax(HEW20) MCH\_2437MHz\_SU / ANT3 (MIMO) NTNv

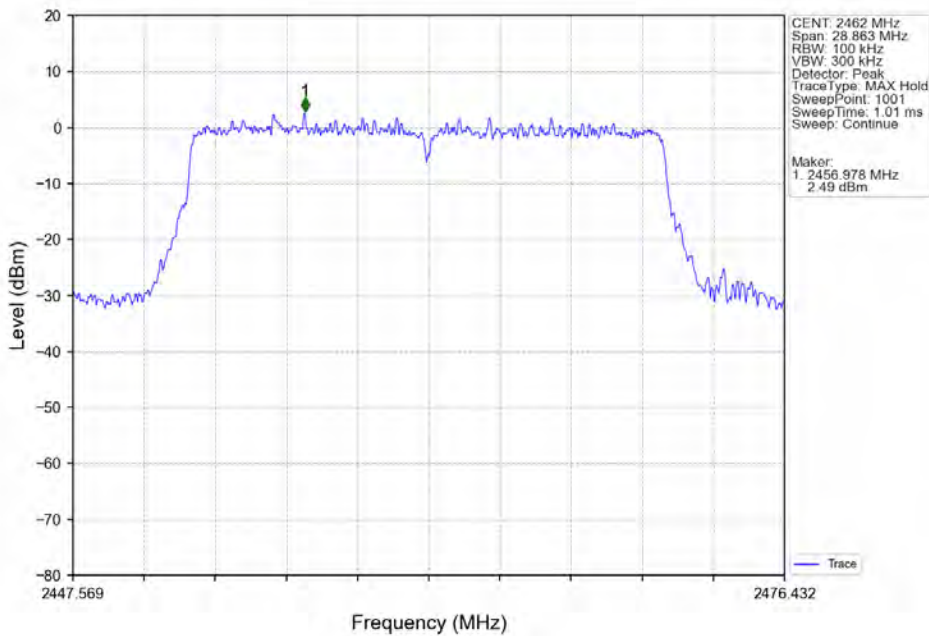




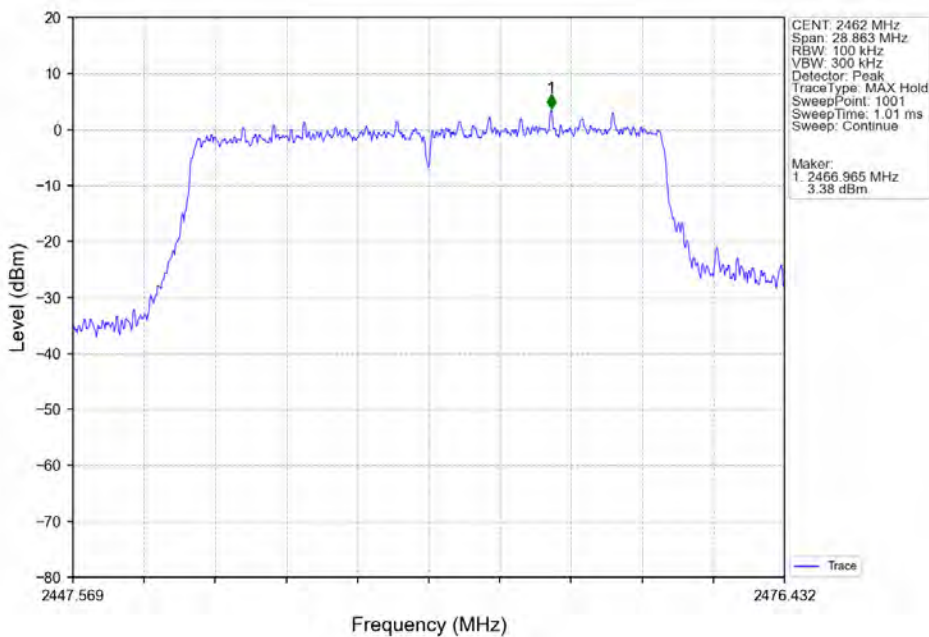
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 74 of 180

802.11ax(HEW20)\_HCH\_2462MHz\_SU / ANT2 (MIMO) NTNv



802.11ax(HEW20)\_HCH\_2462MHz\_SU / ANT3 (MIMO) NTNv

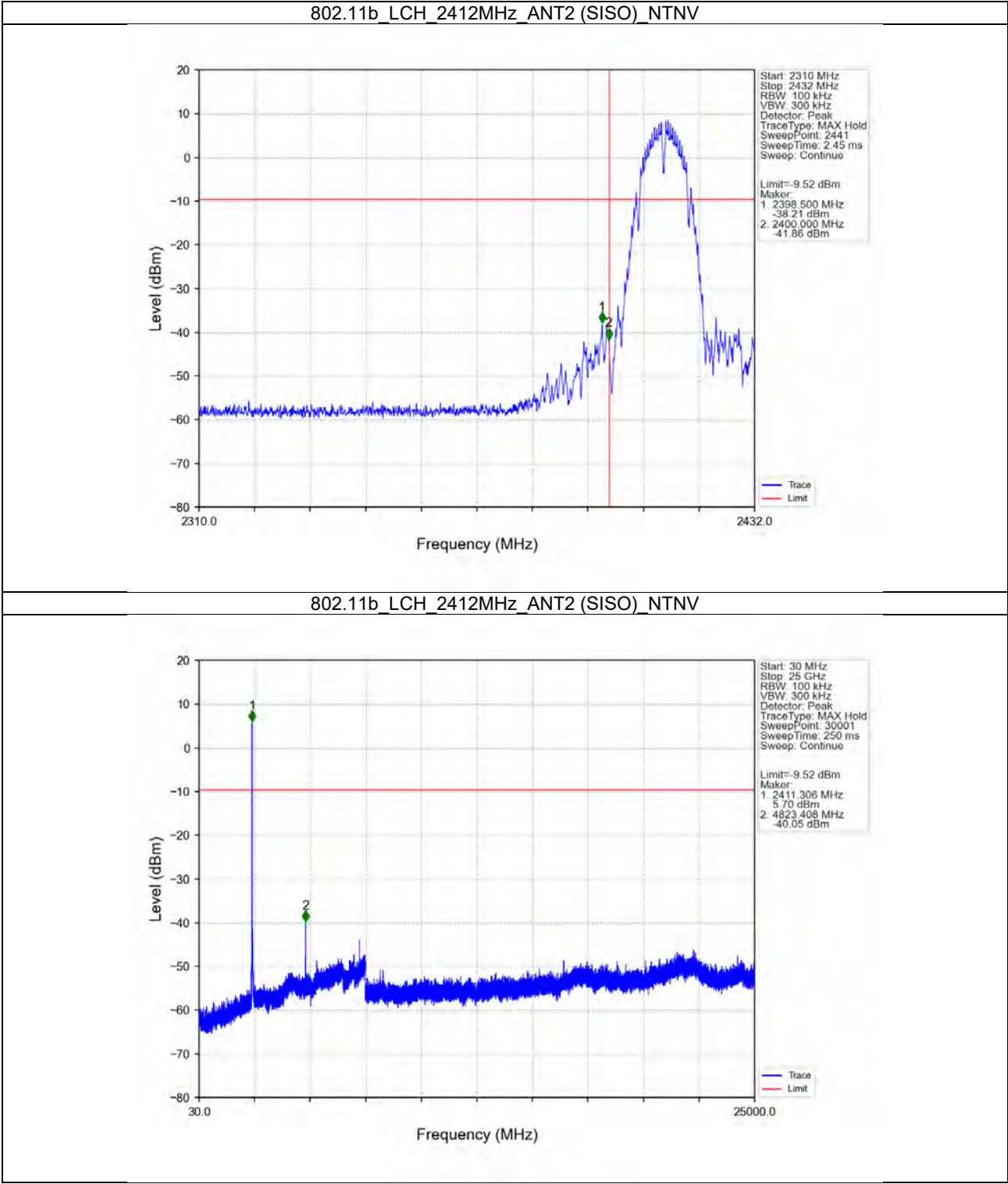




SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 75 of 180

5.2.2 CSE

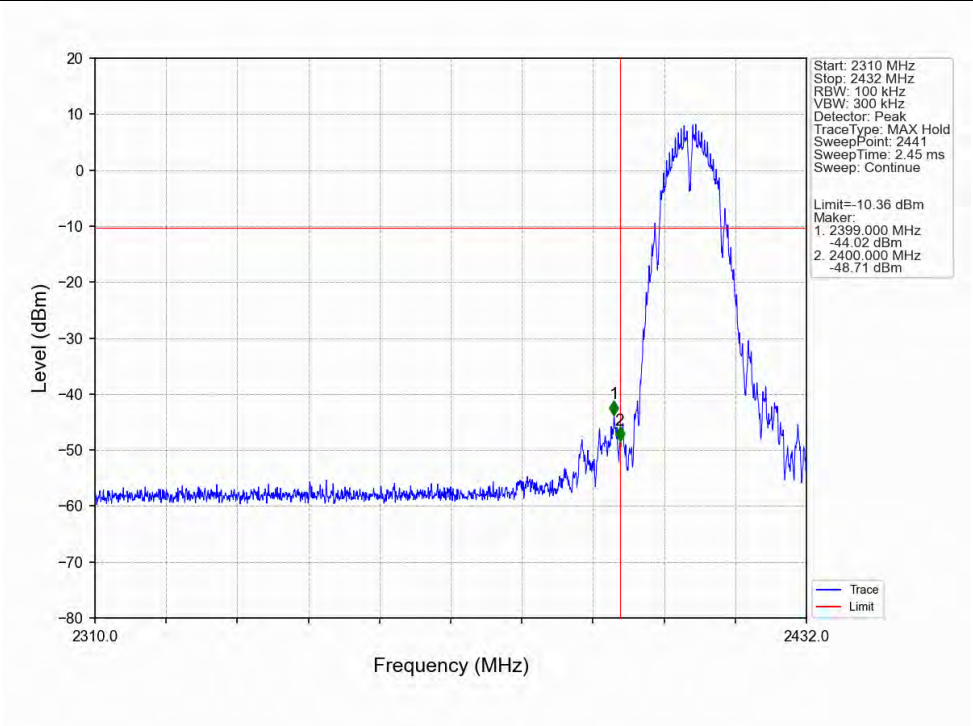




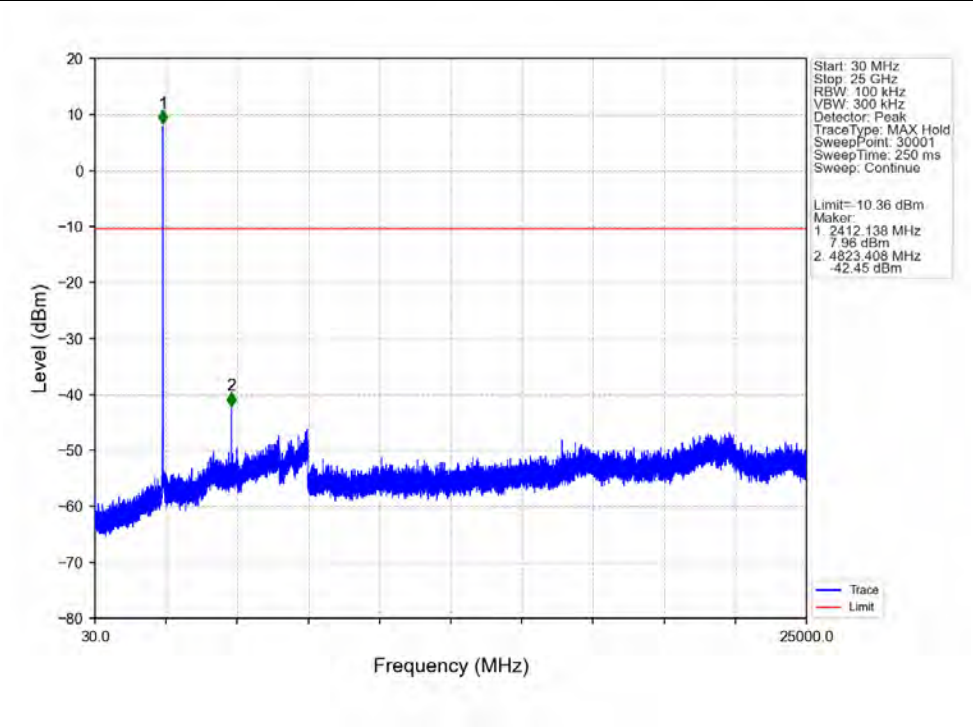
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 76 of 180

802.11b\_LCH\_2412MHz\_ANT3 (SISO)\_NTNV



802.11b\_LCH\_2412MHz\_ANT3 (SISO)\_NTNV

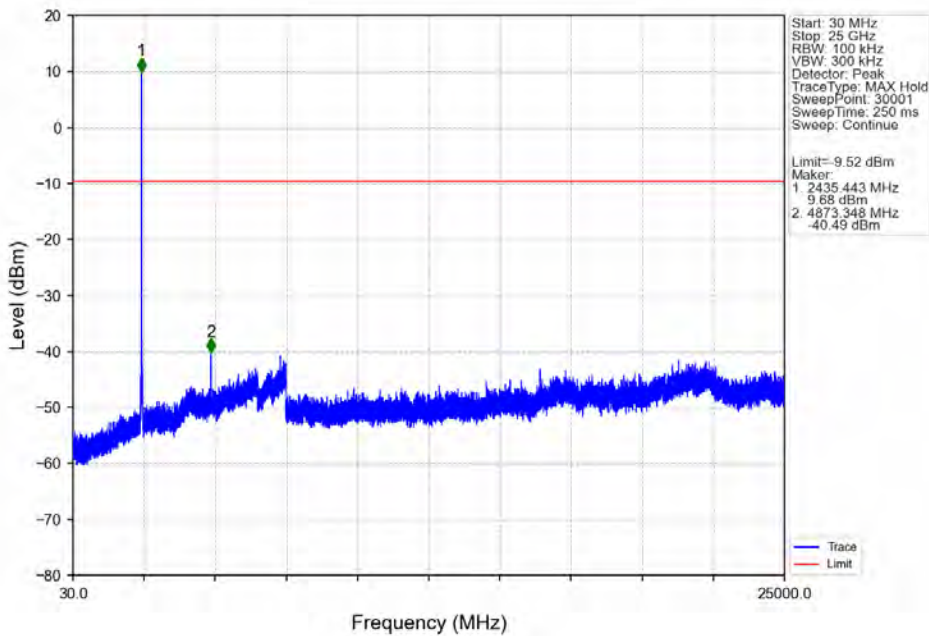




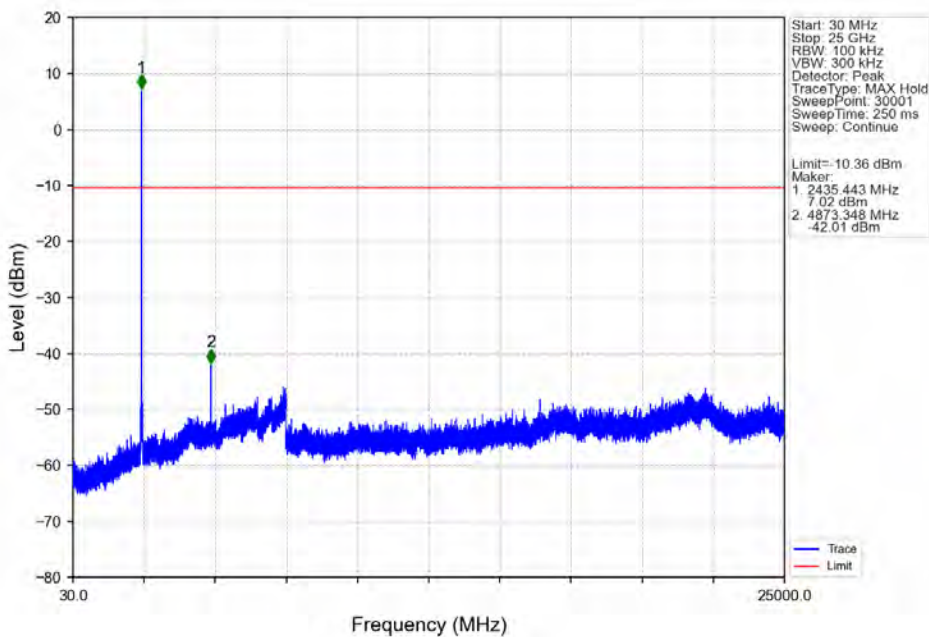
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 77 of 180

802.11b\_MCH\_2437MHz\_ANT2 (SISO)\_NTNV



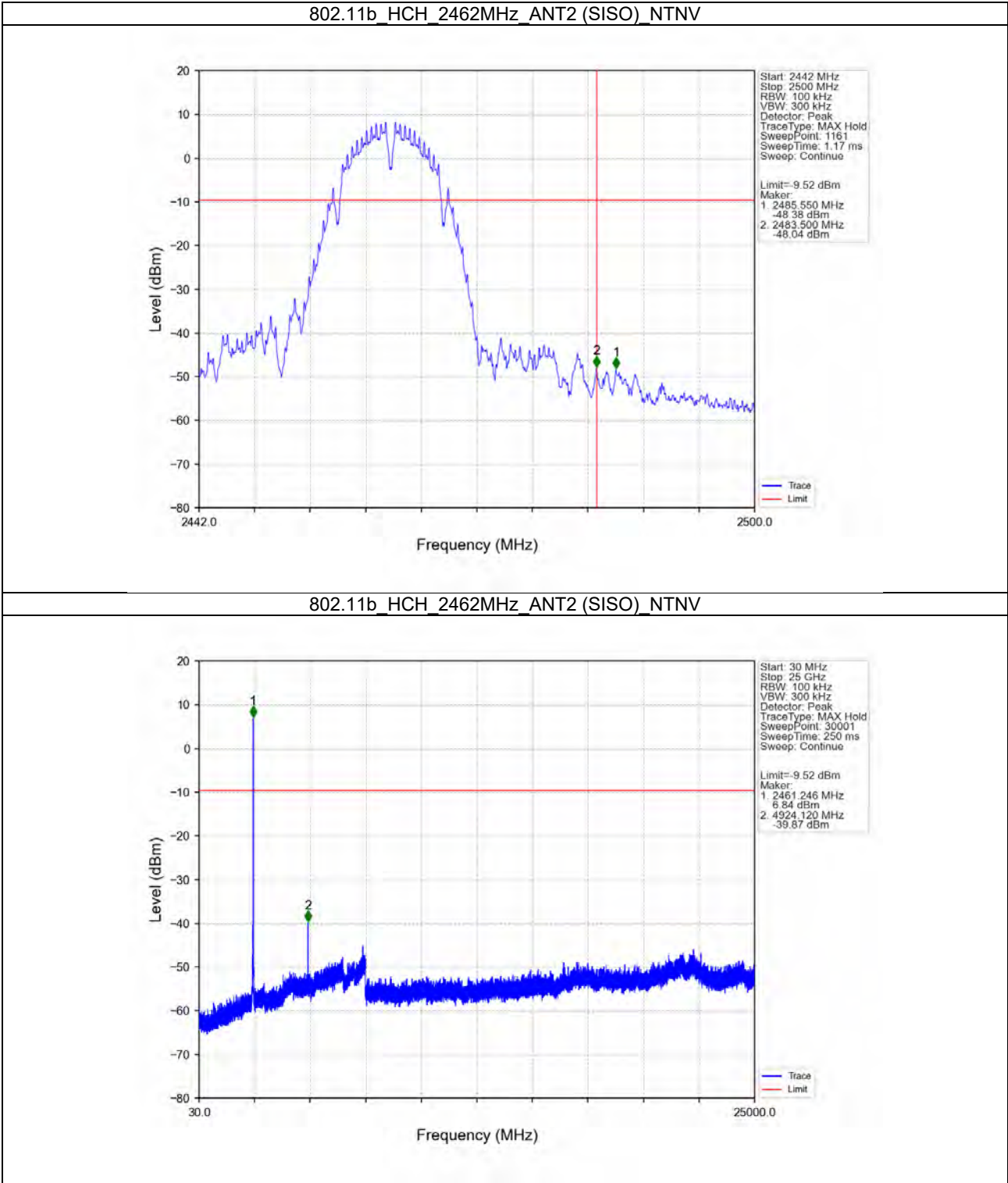
802.11b\_MCH\_2437MHz\_ANT3 (SISO)\_NTNV





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 78 of 180

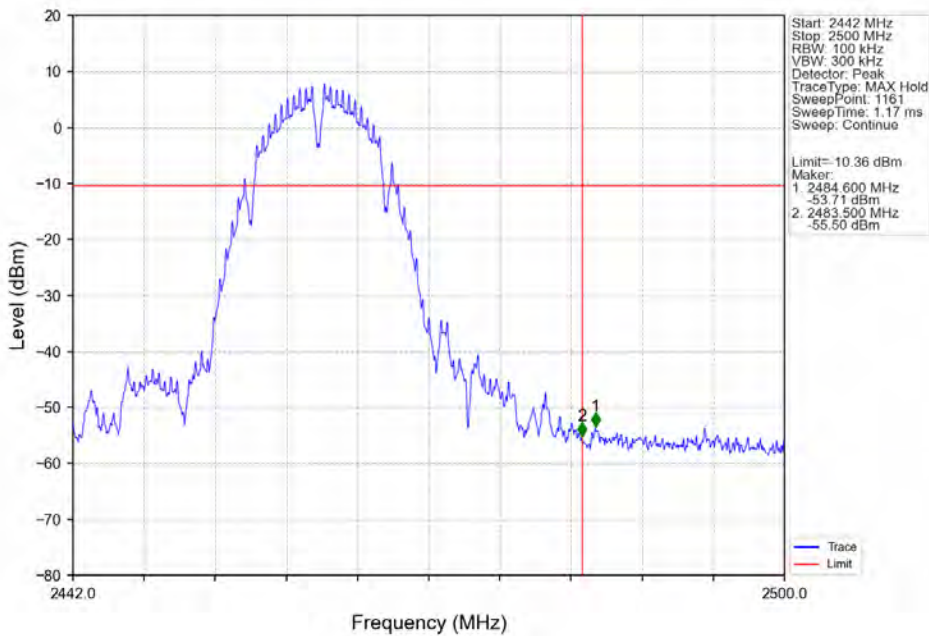




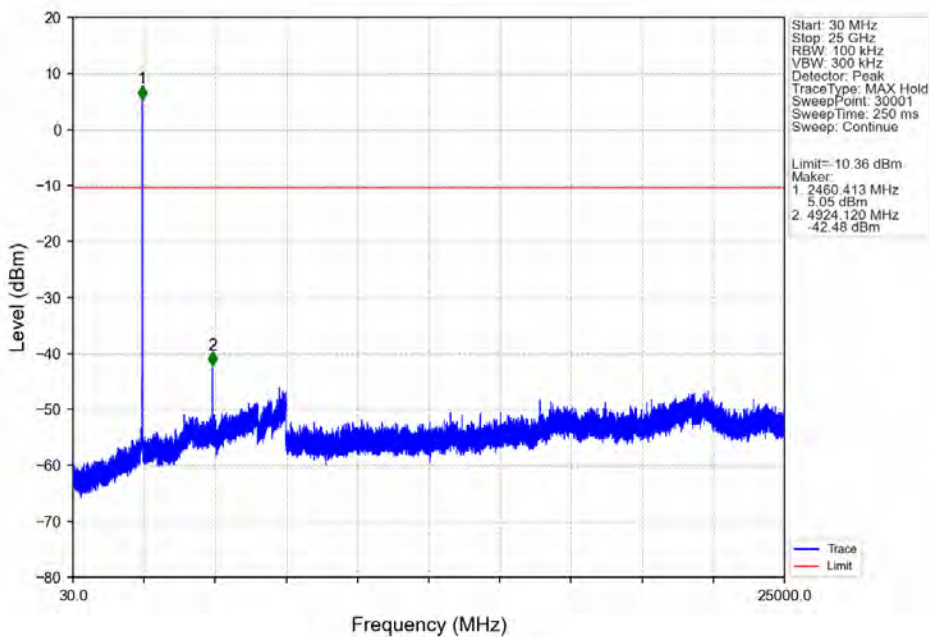
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 79 of 180

802.11b\_HCH\_2462MHz\_ANT3 (SISO)\_NTNV



802.11b\_HCH\_2462MHz\_ANT3 (SISO)\_NTNV

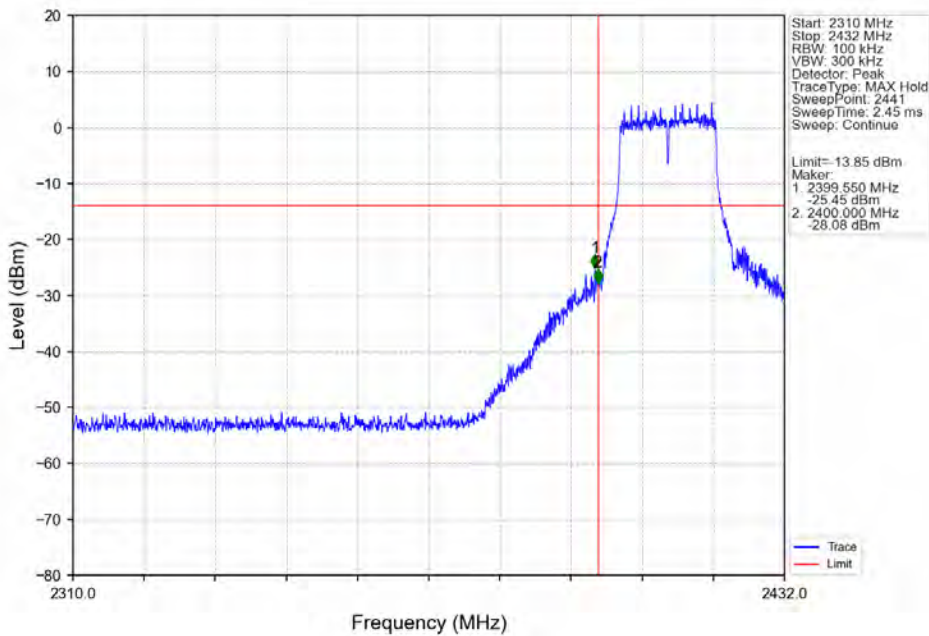




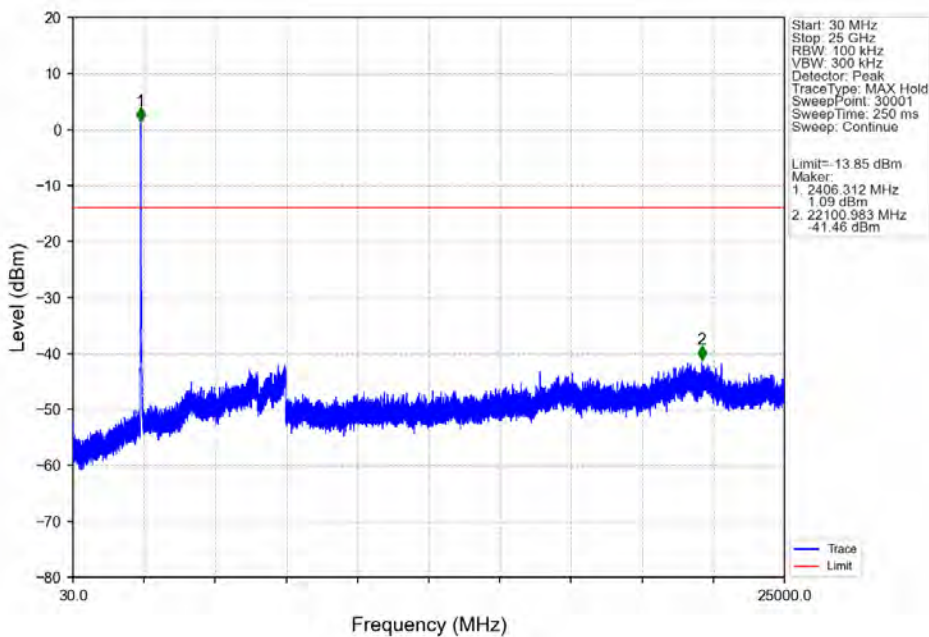
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 80 of 180

802.11g\_LCH\_2412MHz\_ANT2 (SISO)\_NTNV



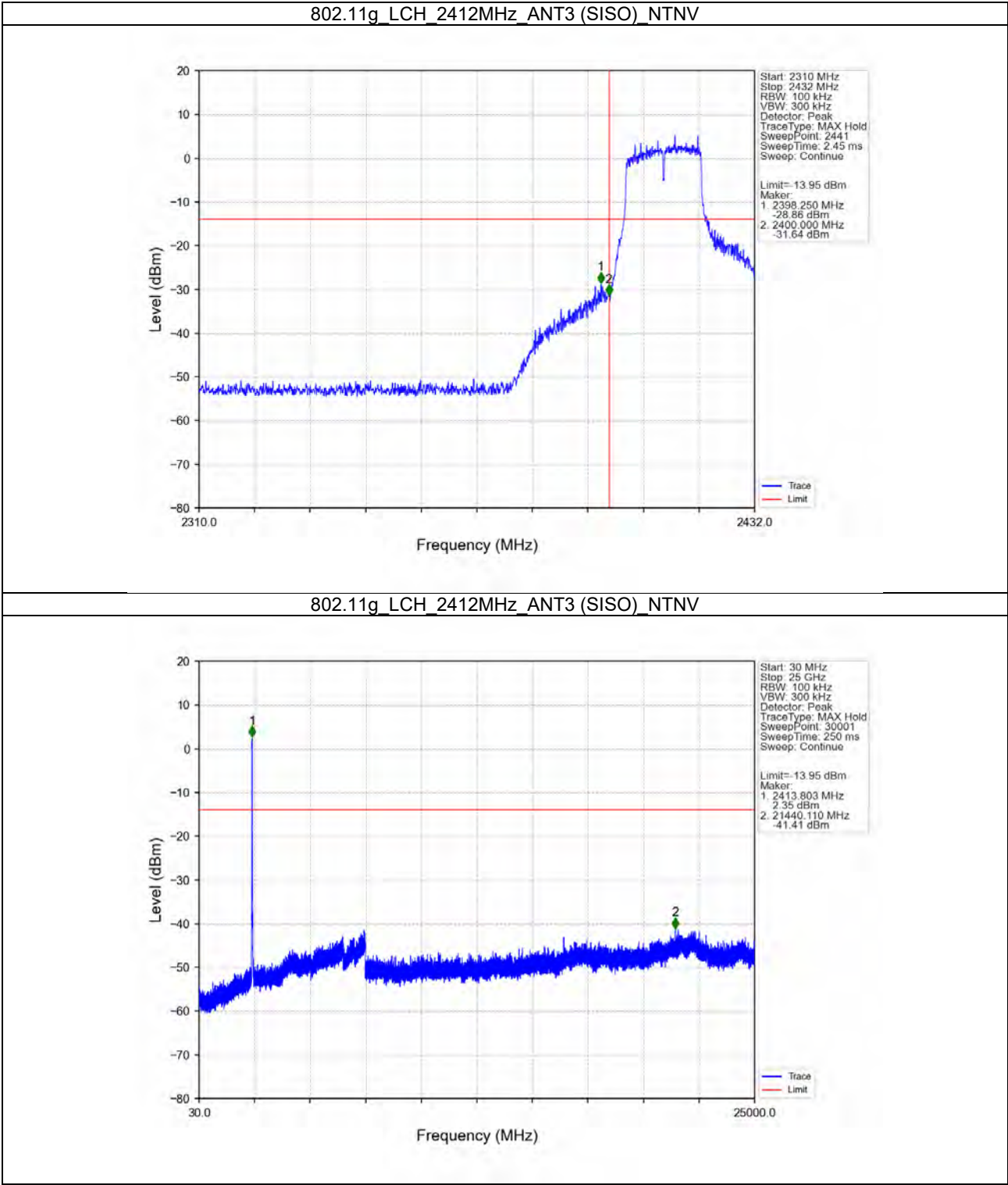
802.11g\_LCH\_2412MHz\_ANT2 (SISO)\_NTNV





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 81 of 180

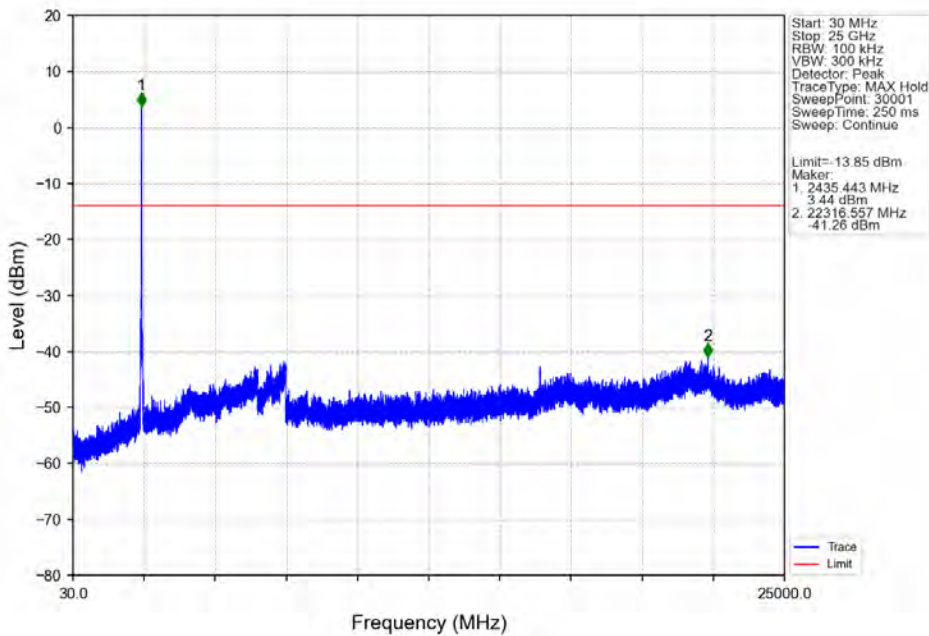




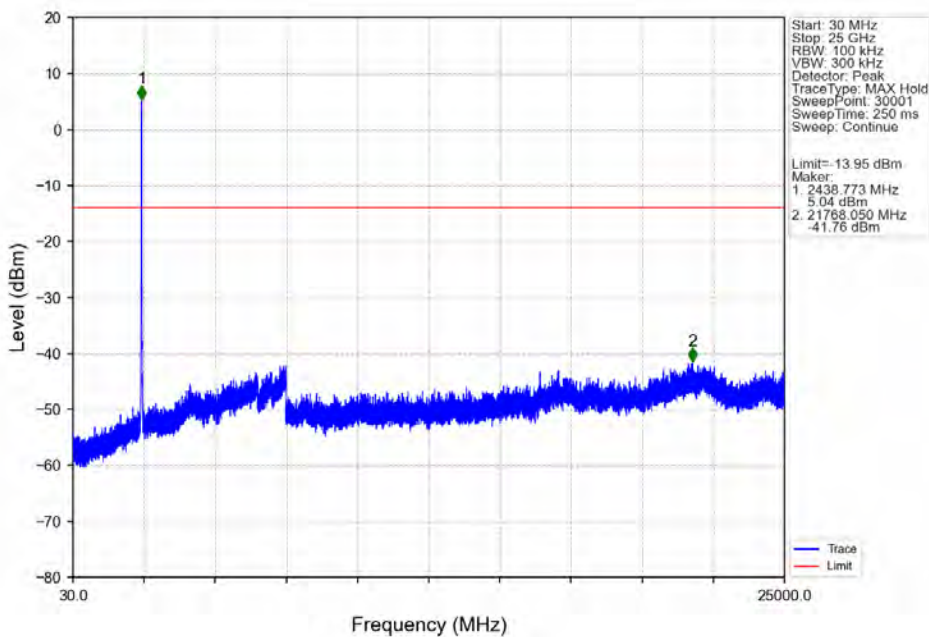
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 82 of 180

802.11g\_MCH\_2437MHz\_ANT2 (SISO)\_NTNV



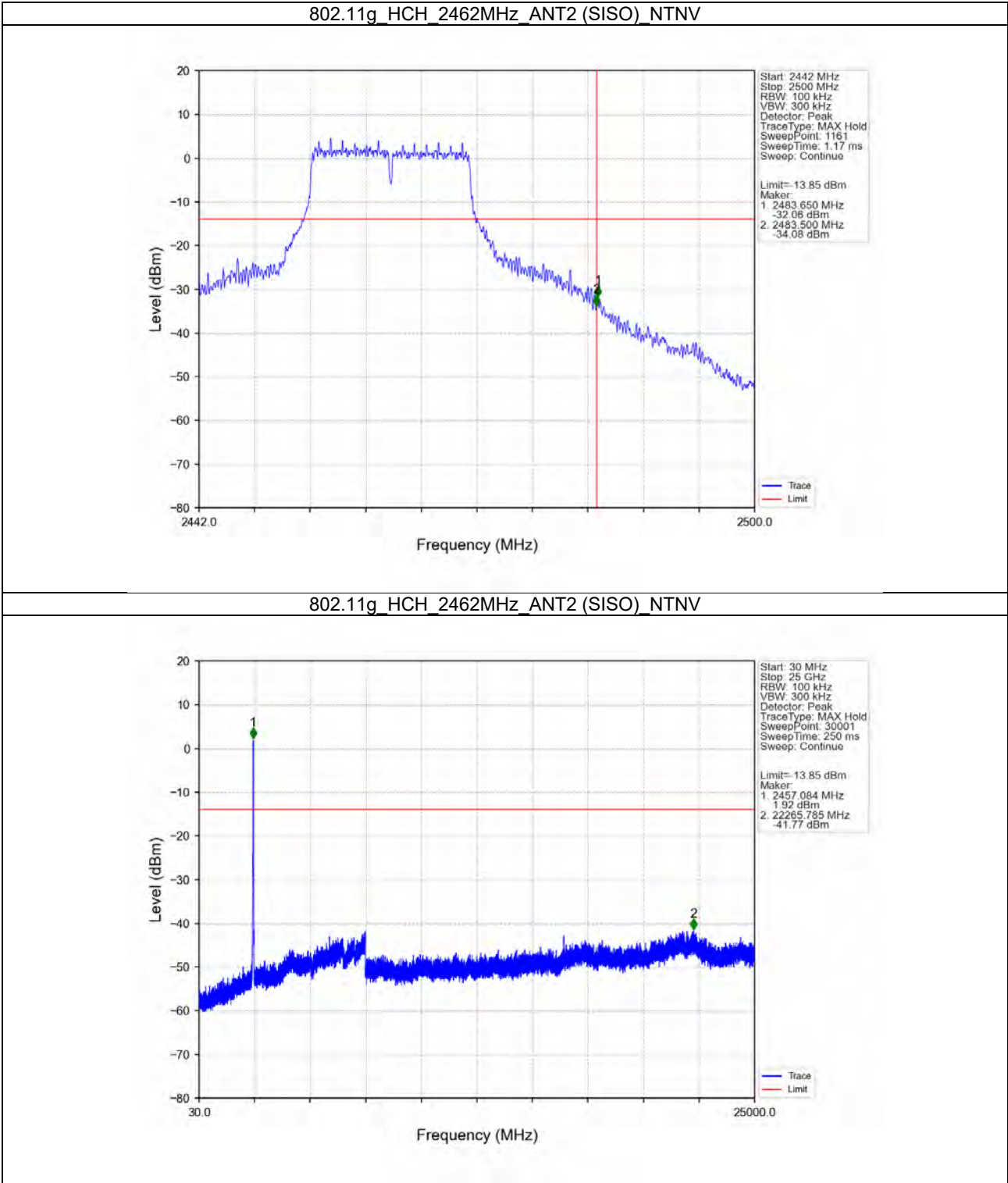
802.11g\_MCH\_2437MHz\_ANT3 (SISO)\_NTNV





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

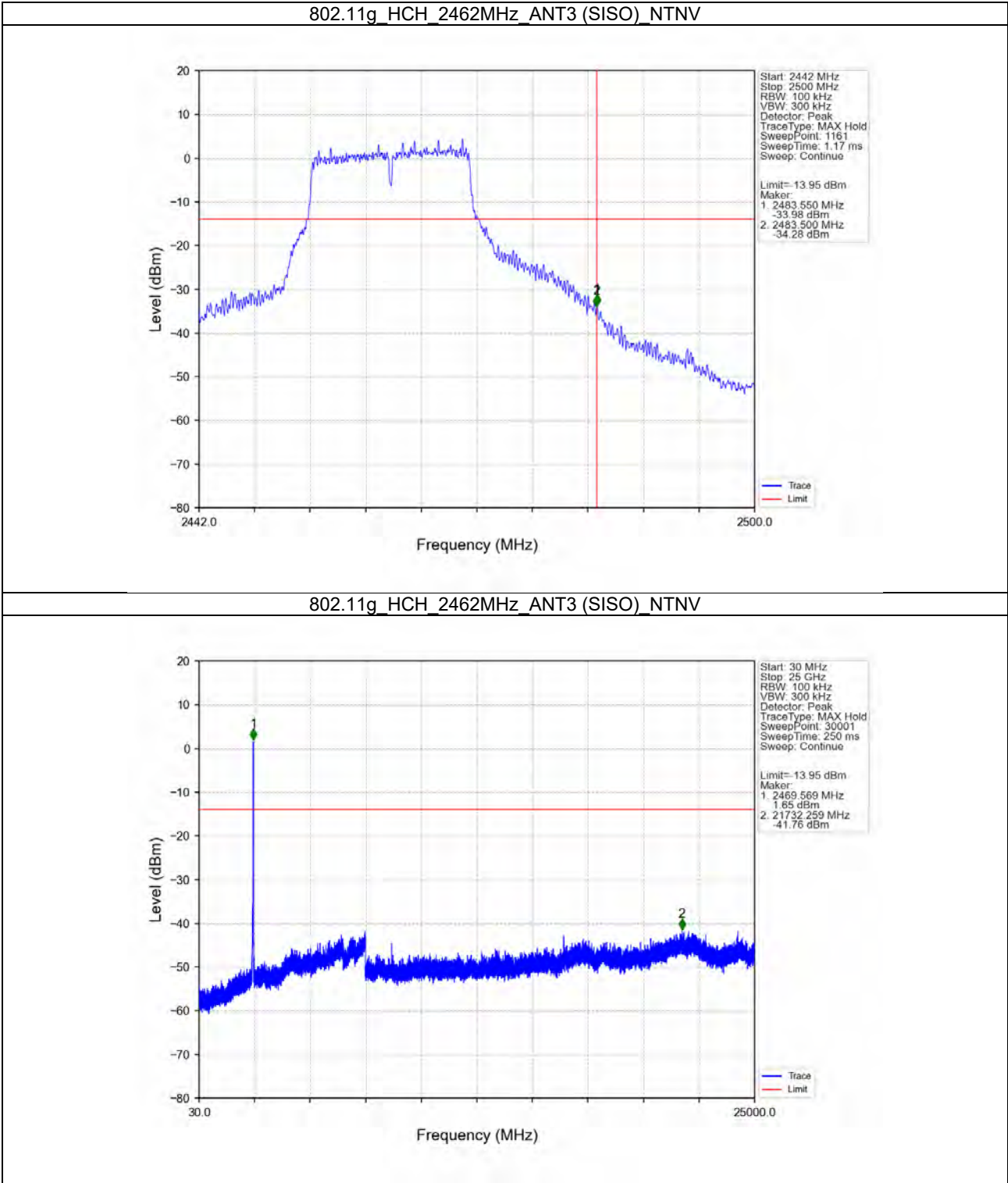
Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 83 of 180





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 84 of 180

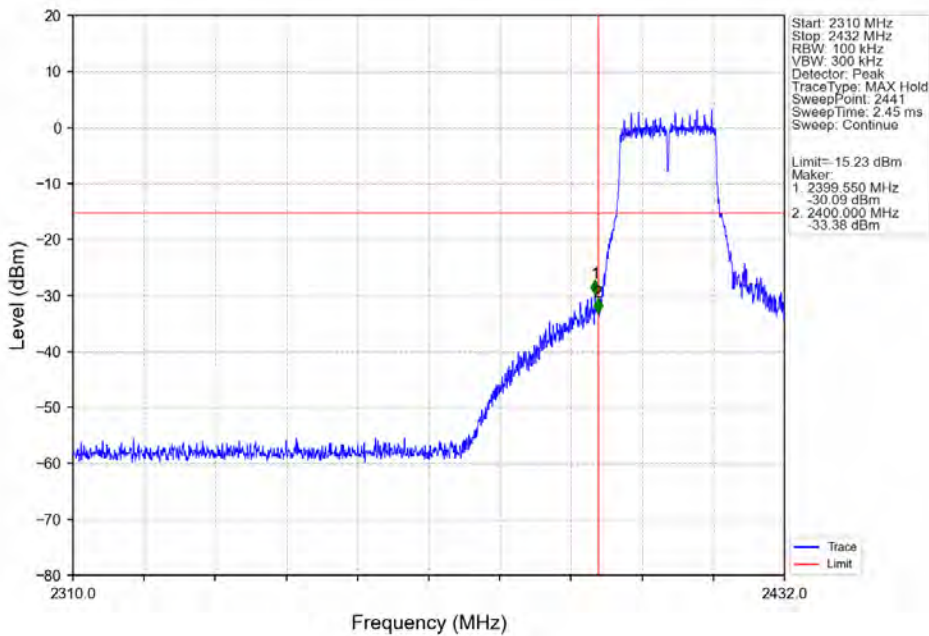




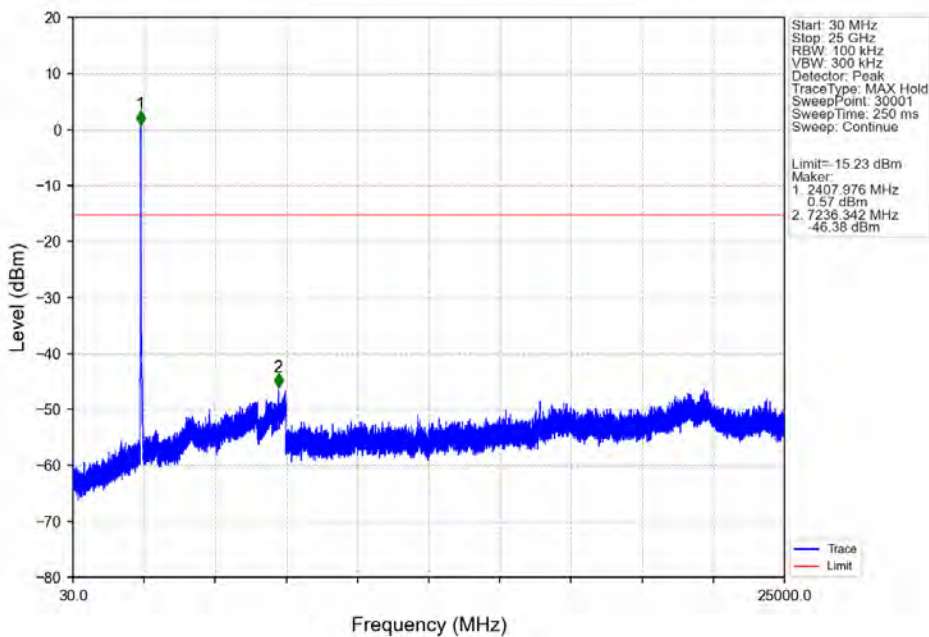
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 85 of 180

802.11n(HT20)\_LCH\_2412MHz\_ANT2 (MIMO)\_NTNV



802.11n(HT20)\_LCH\_2412MHz\_ANT2 (MIMO)\_NTNV

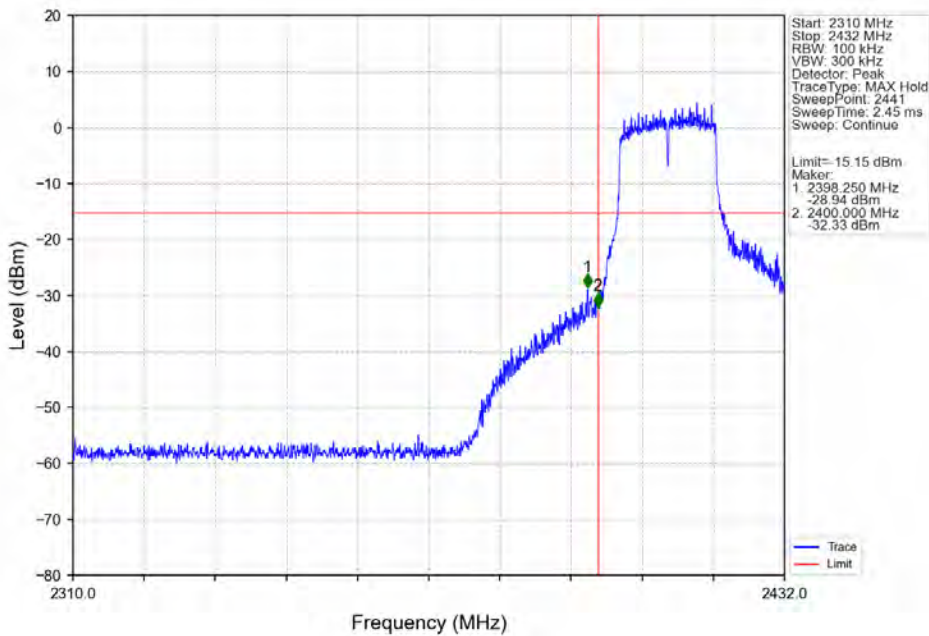




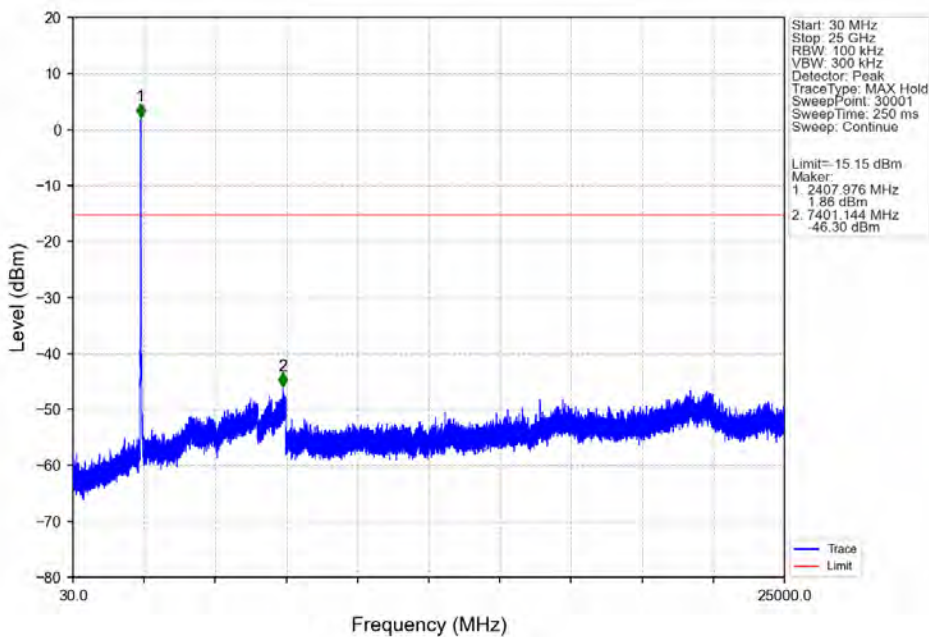
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 86 of 180

802.11n(HT20)\_LCH\_2412MHz\_ANT3 (MIMO)\_NTNV



802.11n(HT20)\_LCH\_2412MHz\_ANT3 (MIMO)\_NTNV

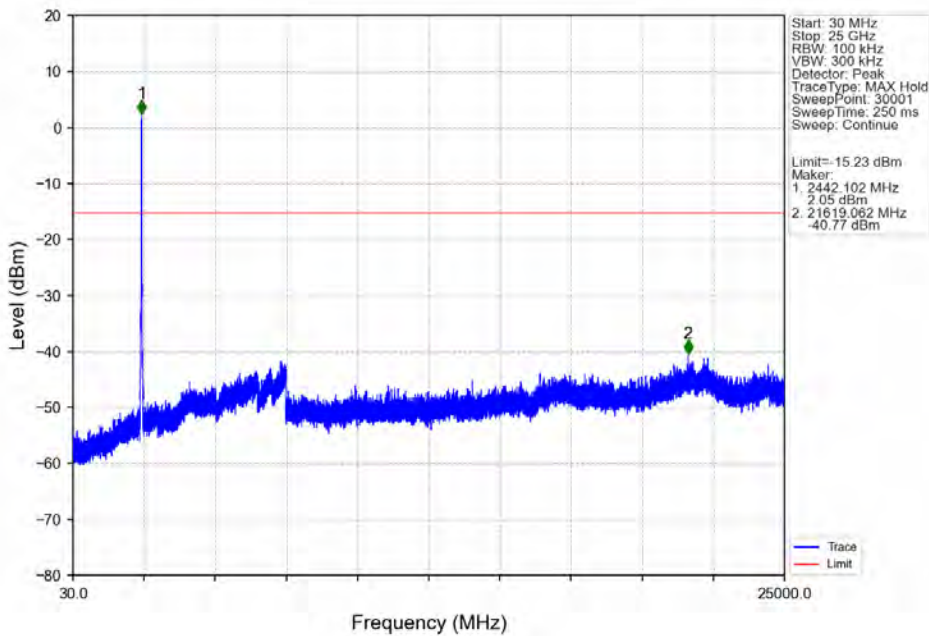




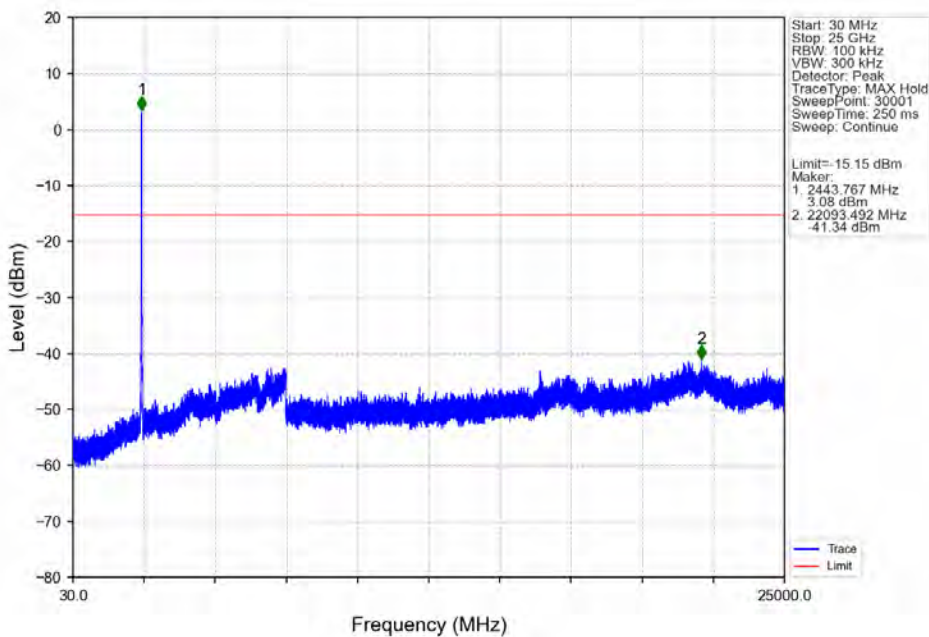
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 87 of 180

802.11n(HT20)\_MCH\_2437MHz\_ANT2 (MIMO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_ANT3 (MIMO)\_NTNV

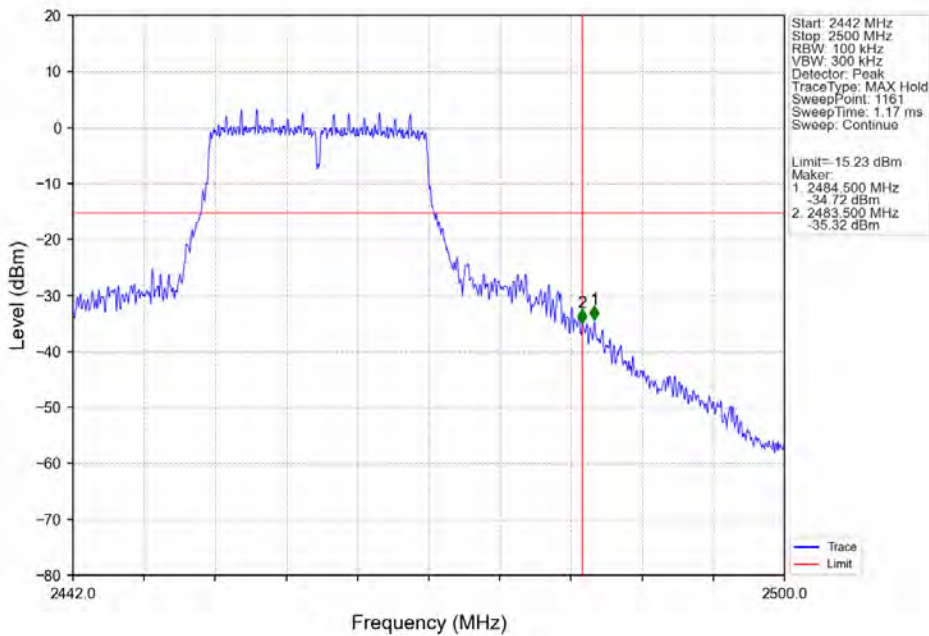




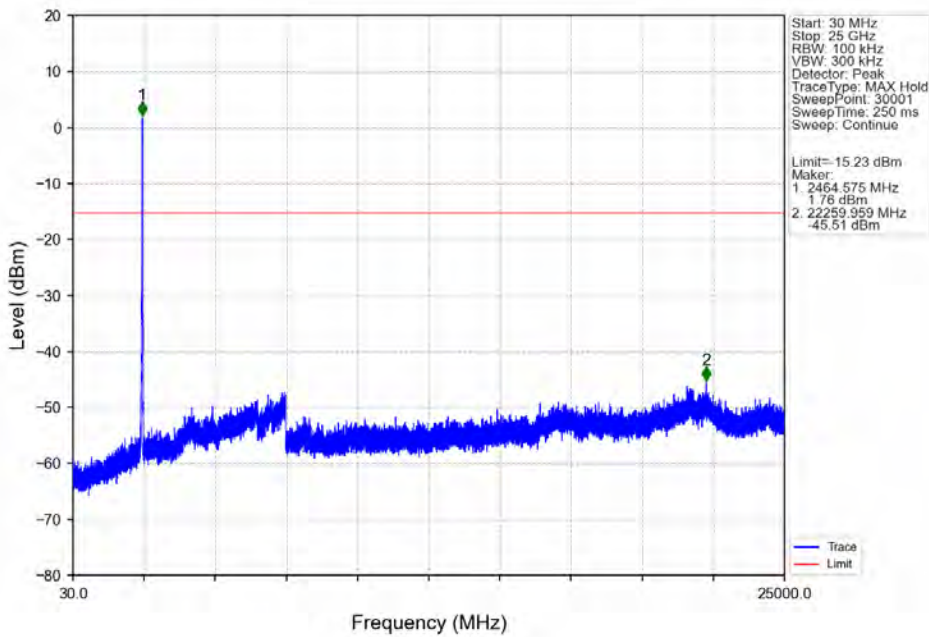
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 88 of 180

802.11n(HT20)\_HCH\_2462MHz\_ANT2 (MIMO)\_NTNV



802.11n(HT20)\_HCH\_2462MHz\_ANT2 (MIMO)\_NTNV

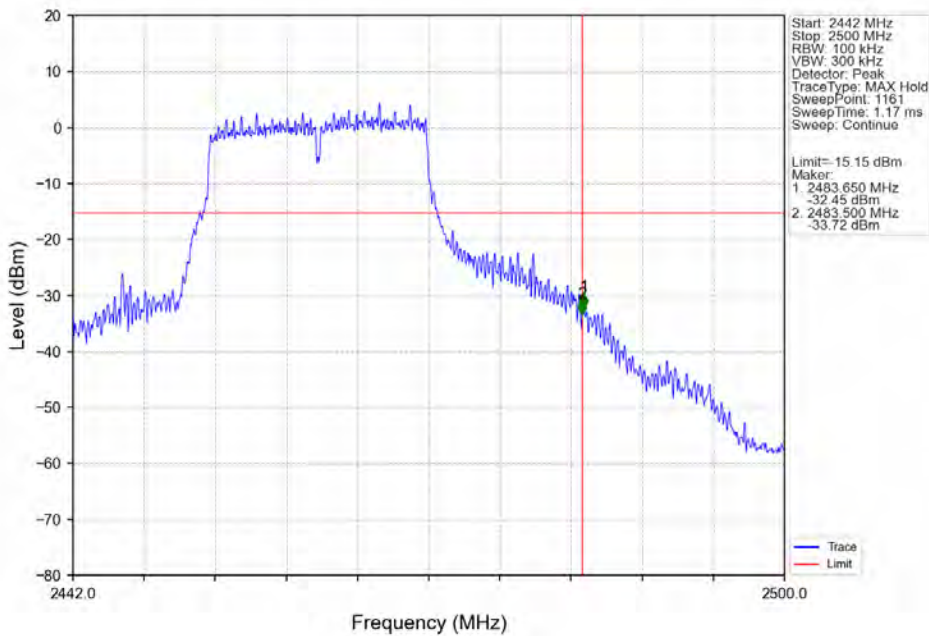




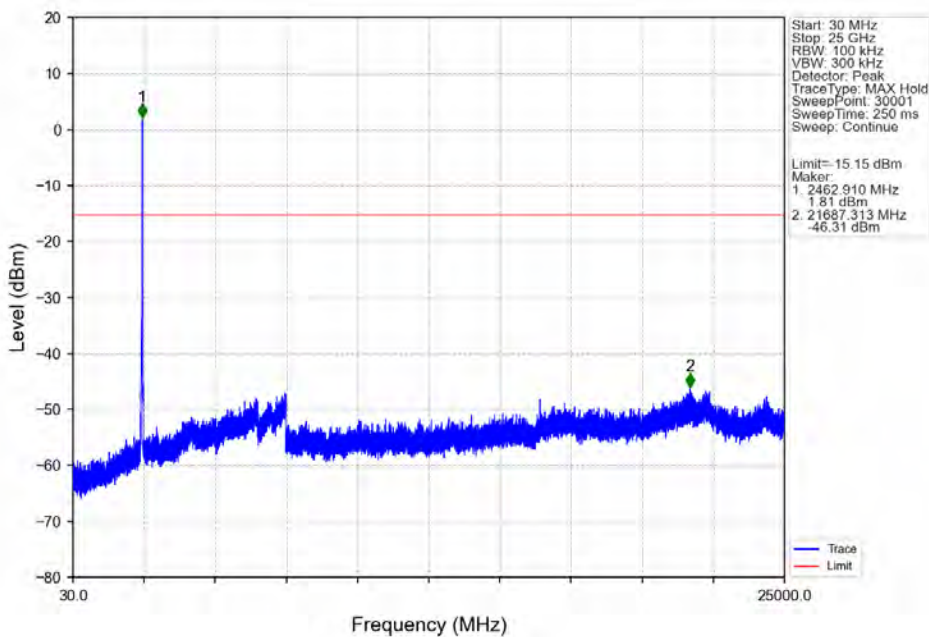
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 89 of 180

802.11n(HT20)\_HCH\_2462MHz\_ANT3 (MIMO)\_NTNV



802.11n(HT20)\_HCH\_2462MHz\_ANT3 (MIMO)\_NTNV

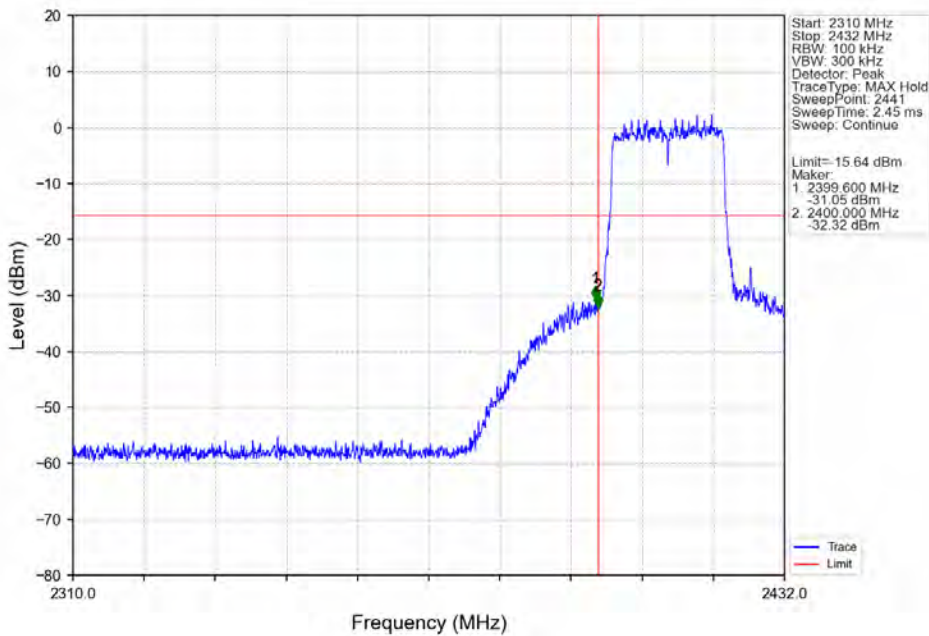




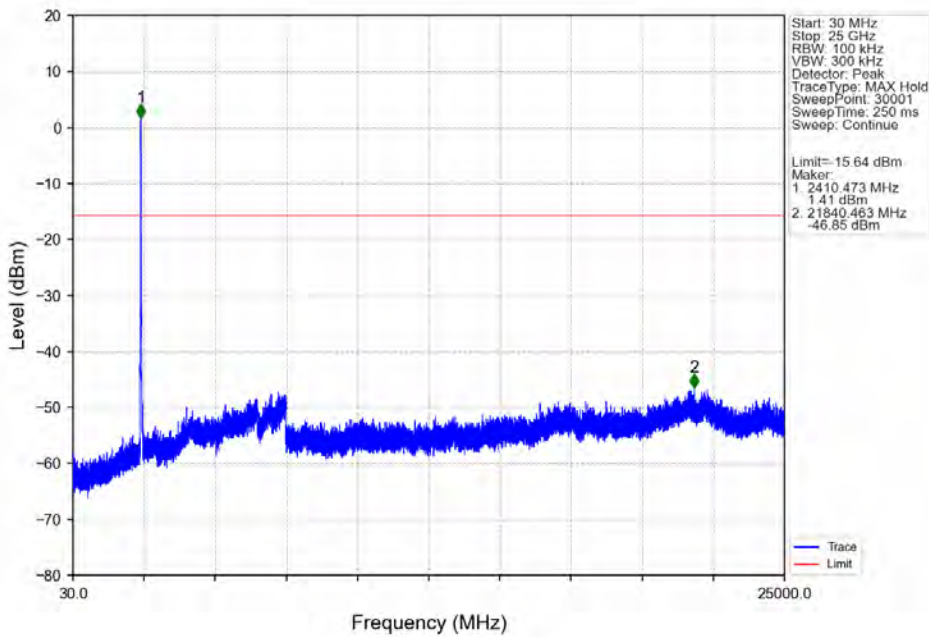
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 90 of 180

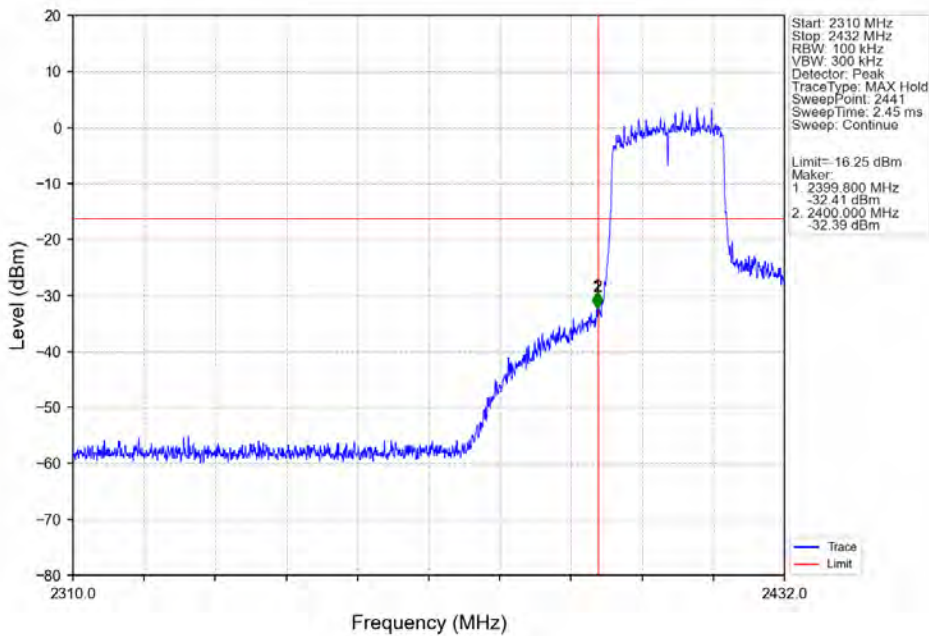
802.11ax(HEW20)\_LCH\_2412MHz\_SU\_ / \_ANT2 (MIMO)\_NTNV



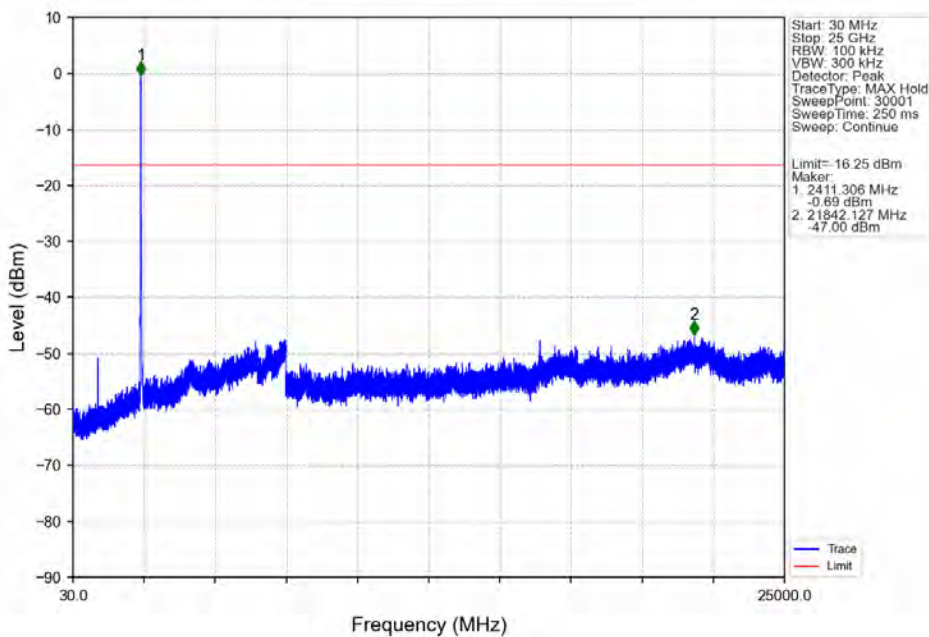
802.11ax(HEW20)\_LCH\_2412MHz\_SU\_ / \_ANT2 (MIMO)\_NTNV



802.11ax(HEW20)\_LCH\_2412MHz\_SU\_ / ANT3 (MIMO)\_NTNV



802.11ax(HEW20)\_LCH\_2412MHz\_SU\_ / ANT3 (MIMO)\_NTNV

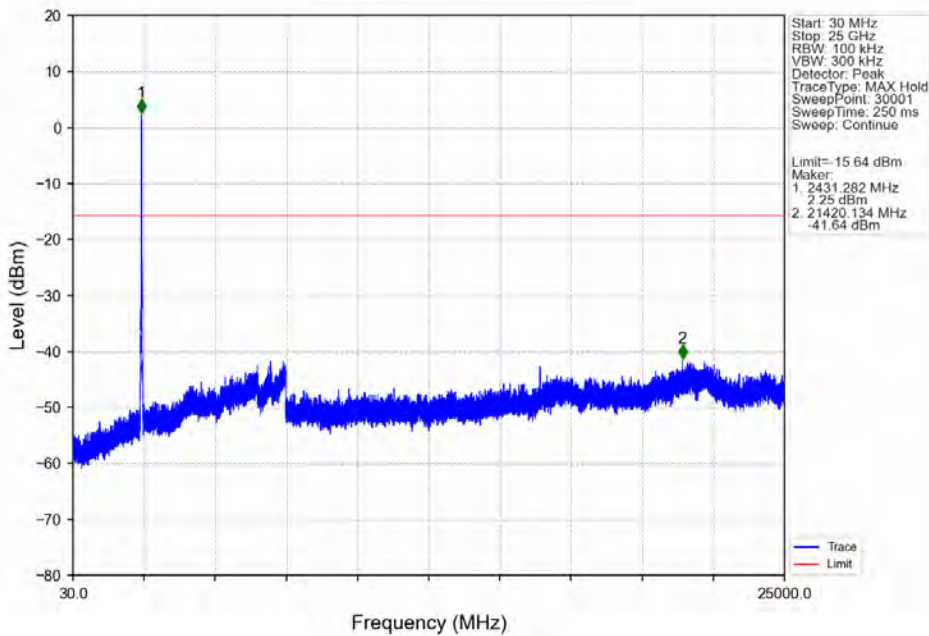




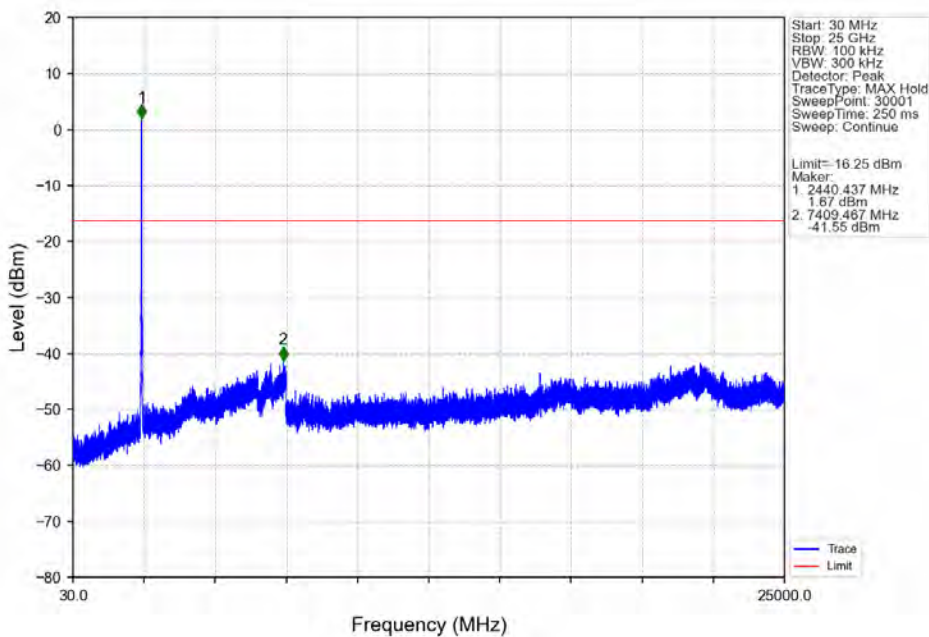
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 92 of 180

802.11ax(HEW20) MCH\_2437MHz\_SU / ANT2 (MIMO) NTNv



802.11ax(HEW20) MCH\_2437MHz\_SU / ANT3 (MIMO) NTNv

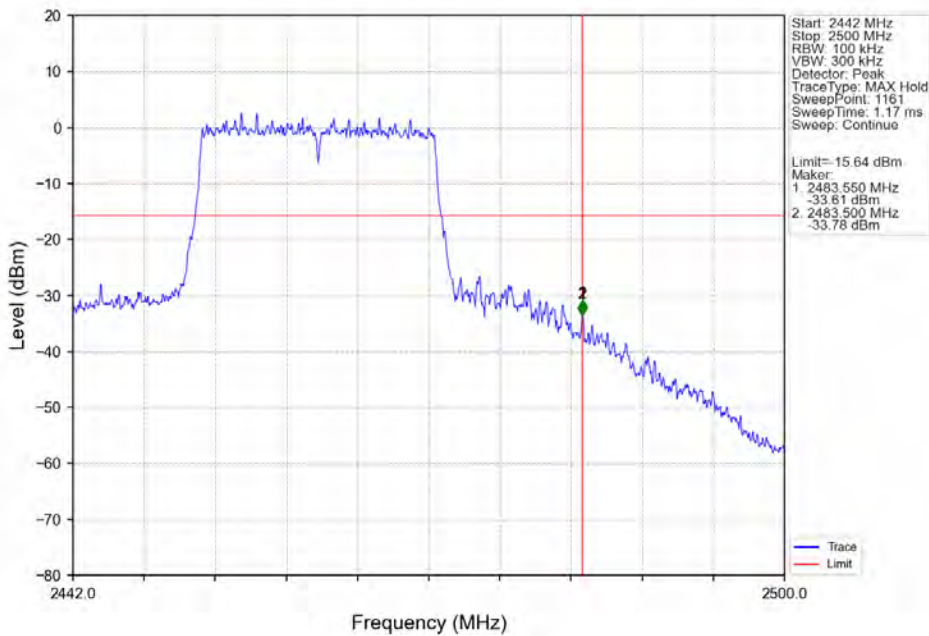




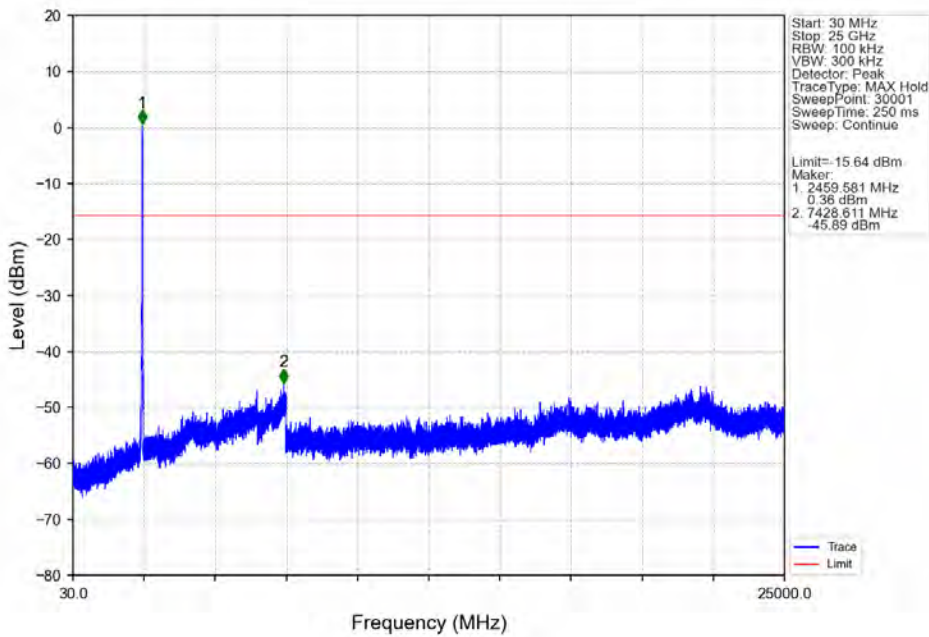
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 93 of 180

802.11ax(HEW20)\_HCH\_2462MHz\_SU / ANT2 (MIMO)\_NTNV



802.11ax(HEW20)\_HCH\_2462MHz\_SU / ANT2 (MIMO)\_NTNV

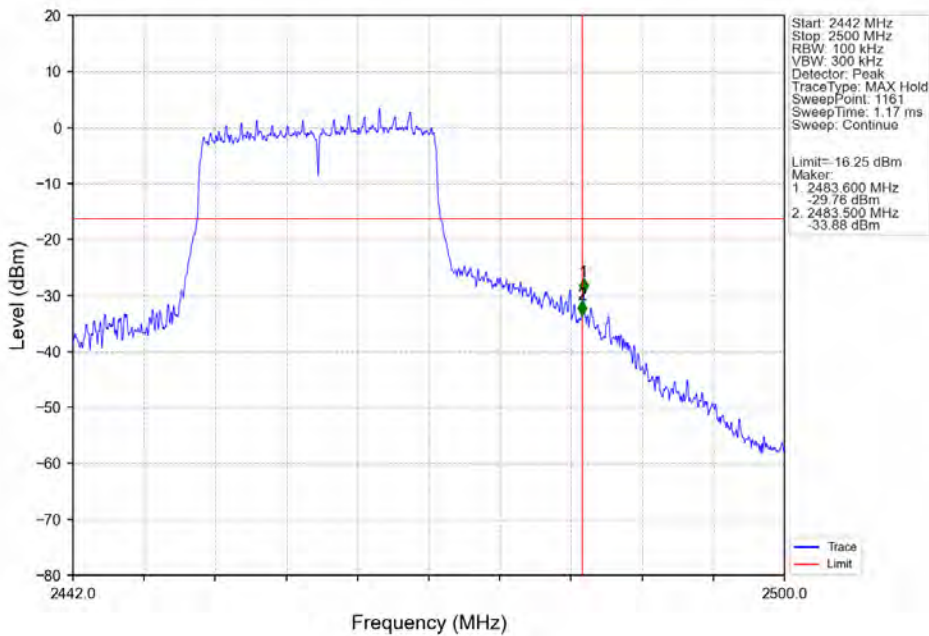




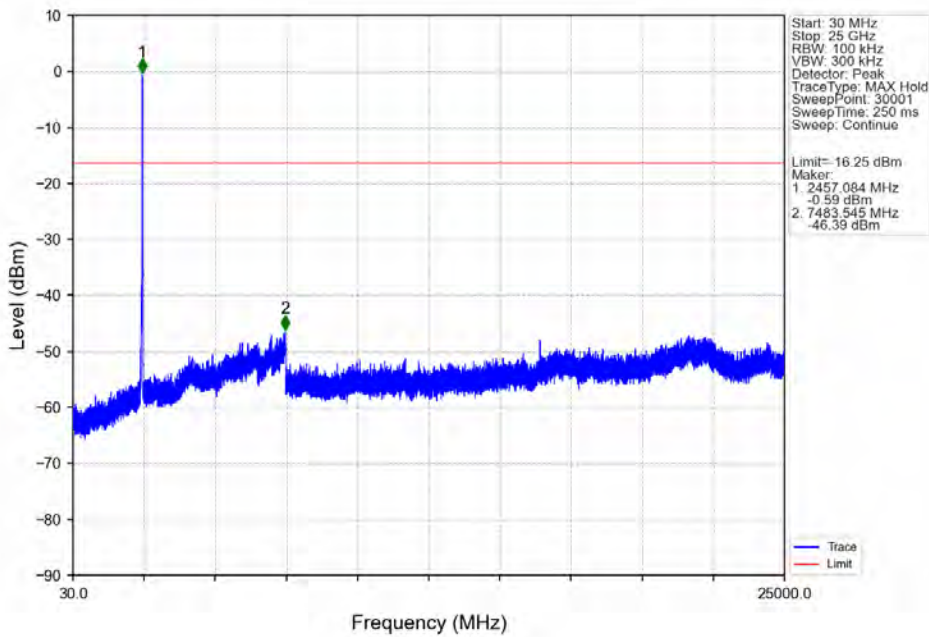
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 94 of 180

802.11ax(HEW20)\_HCH\_2462MHz\_SU / ANT3 (MIMO)\_NTNV



802.11ax(HEW20)\_HCH\_2462MHz\_SU / ANT3 (MIMO)\_NTNV





## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

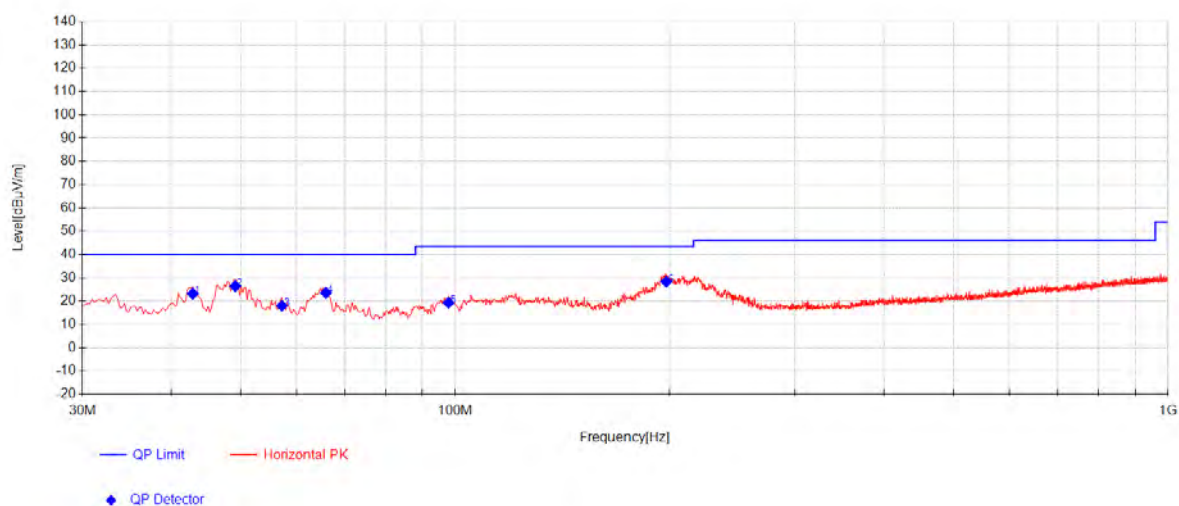
Rev.: Amendment 02

Page: 95 of 180

### Radiated Spurious Emissions

### Radiated emission below 1GHz

Worst case Mode: 11b ANT 2\_Channel 11



| Final Data List |                 |                |             |           |                   |                   |                |            |
|-----------------|-----------------|----------------|-------------|-----------|-------------------|-------------------|----------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF [dB/m] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Polarity   |
| 1               | 42.8525         | 38.24          | -33.81      | 18.79     | 23.21             | 40.00             | 16.79          | Horizontal |
| 2               | 49.1575         | 41.32          | -33.70      | 18.77     | 26.38             | 40.00             | 13.62          | Horizontal |
| 3               | 57.16           | 33.57          | -33.59      | 18.04     | 18.01             | 40.00             | 21.99          | Horizontal |
| 4               | 65.89           | 39.73          | -33.48      | 17.29     | 23.54             | 40.00             | 16.46          | Horizontal |
| 5               | 97.9            | 38.27          | -33.15      | 14.21     | 19.33             | 43.50             | 24.17          | Horizontal |
| 6               | 197.81          | 45.28          | -32.27      | 15.28     | 28.29             | 43.50             | 15.21          | Horizontal |



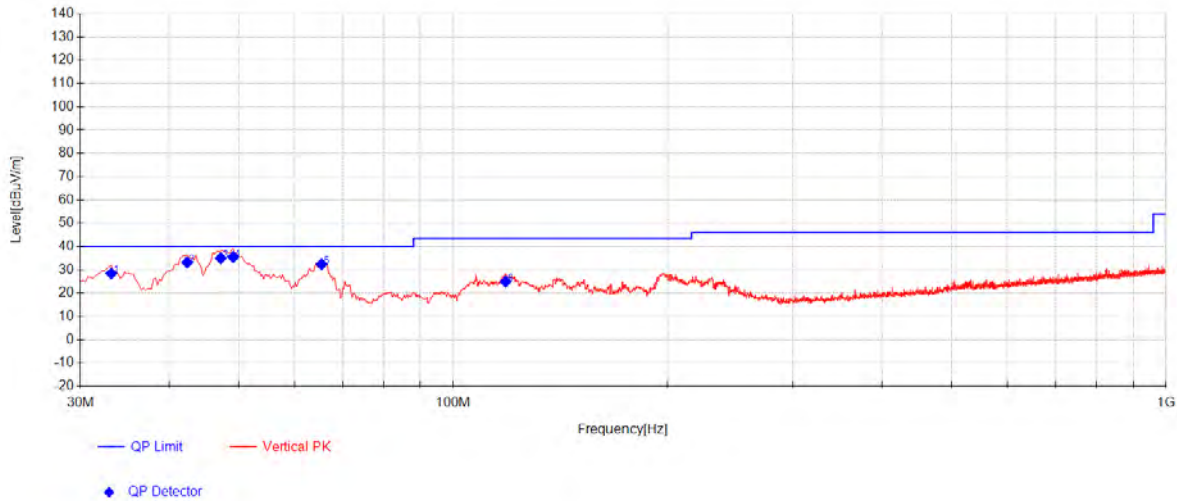
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 96 of 180

### 11b ANT 2\_Channel 11



| Final Data List |                 |                |             |           |                   |                   |                |          |
|-----------------|-----------------|----------------|-------------|-----------|-------------------|-------------------|----------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF [dB/m] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Polarity |
| 1               | 33.1525         | 44.28          | -33.98      | 18.12     | 28.42             | 40.00             | 11.58          | Vertical |
| 2               | 42.3675         | 48.27          | -33.82      | 18.74     | 33.19             | 40.00             | 6.81           | Vertical |
| 3               | 47.2175         | 49.86          | -33.74      | 18.88     | 35.00             | 40.00             | 5.00           | Vertical |
| 4               | 49.1575         | 50.42          | -33.70      | 18.77     | 35.48             | 40.00             | 4.52           | Vertical |
| 5               | 65.405          | 48.68          | -33.48      | 17.24     | 32.44             | 40.00             | 7.56           | Vertical |
| 6               | 118.5125        | 41.28          | -32.93      | 16.55     | 24.91             | 43.50             | 18.59          | Vertical |

#### Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:  
Value = Reading(dBμV) + AF(dB/m) + Factor(dB):  
AF = Antenna Factor(dB/m)  
Factor = Cable Factor(dB) - Preamplifier gain(dB)  
Margin = Limit(dBμV/m) – Value(dBμV/m)
- All channels have been tested, but only the worst case data displayed in this report.



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

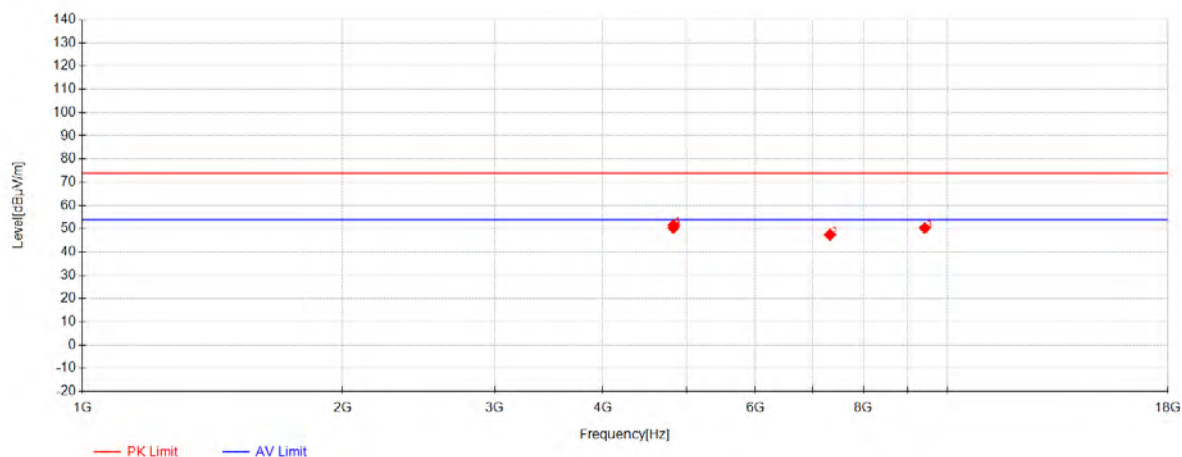
Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 97 of 180

### Transmitter emission Above 1GHz

#### 802.11b ANT 2\_Channel 01



| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 4824            | 60.22          | 32.81     | -41.43      | 51.60          | 74.00          | 22.40       | Horizontal |
| 2               | 7320            | 48.47          | 36.38     | -37.47      | 47.39          | 74.00          | 26.61       | Horizontal |
| 3               | 9422            | 46.35          | 37.73     | -33.78      | 50.30          | 74.00          | 23.70       | Horizontal |
| 4               | 4824.5          | 58.93          | 32.81     | -41.43      | 50.32          | 54.00          | 3.68        | Horizontal |



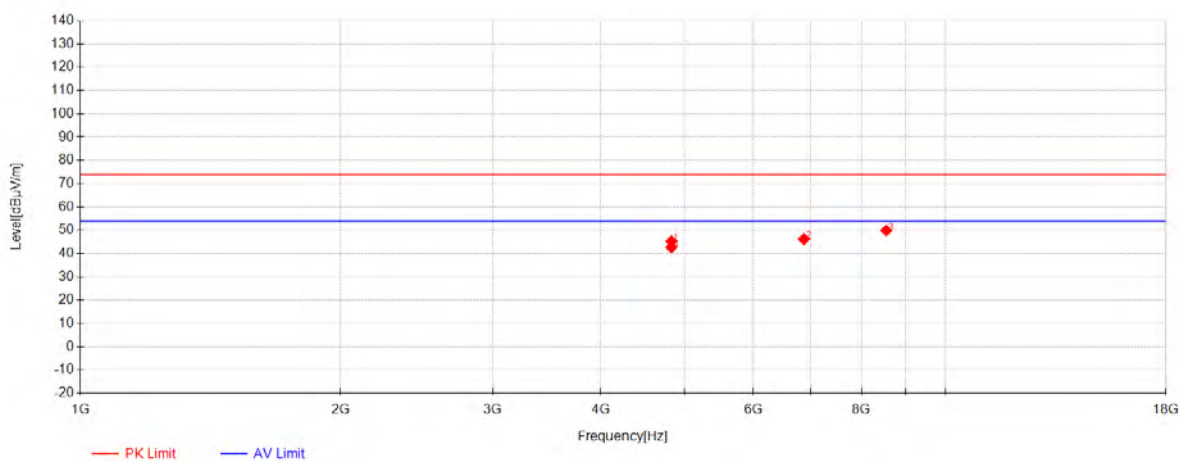
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 98 of 180

### 802.11b ANT 2\_Channel 01



| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 4824            | 53.86          | 32.81     | -41.43      | 45.24          | 74.00          | 28.76       | Vertical |
| 2               | 6865.5          | 48.60          | 35.95     | -38.37      | 46.17          | 74.00          | 27.83       | Vertical |
| 3               | 8548.5          | 47.88          | 37.37     | -35.38      | 49.88          | 74.00          | 24.12       | Vertical |
| 4               | 4824.5          | 51.33          | 32.81     | -41.43      | 42.72          | 54.00          | 11.28       | Vertical |



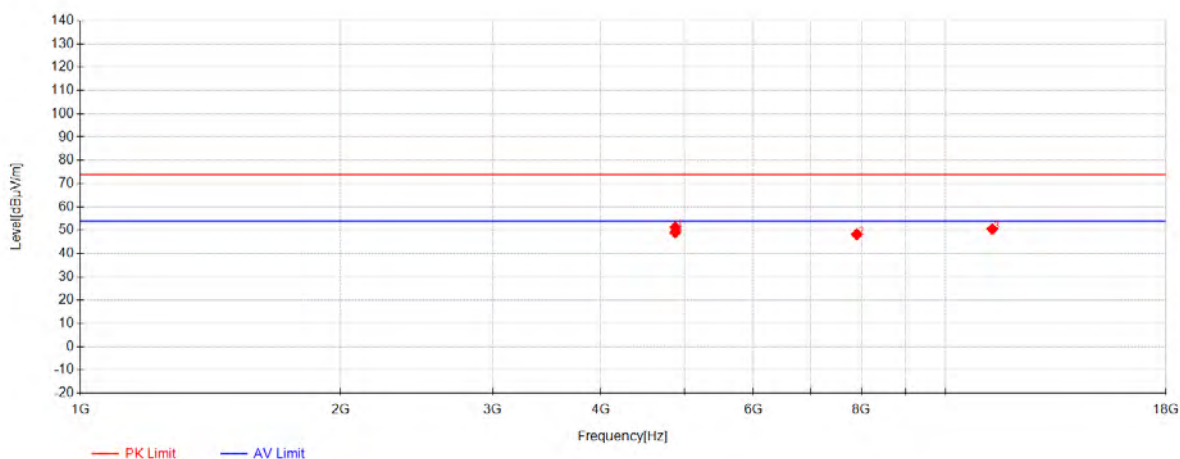
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 99 of 180

### 802.11b ANT 2\_Channel 06



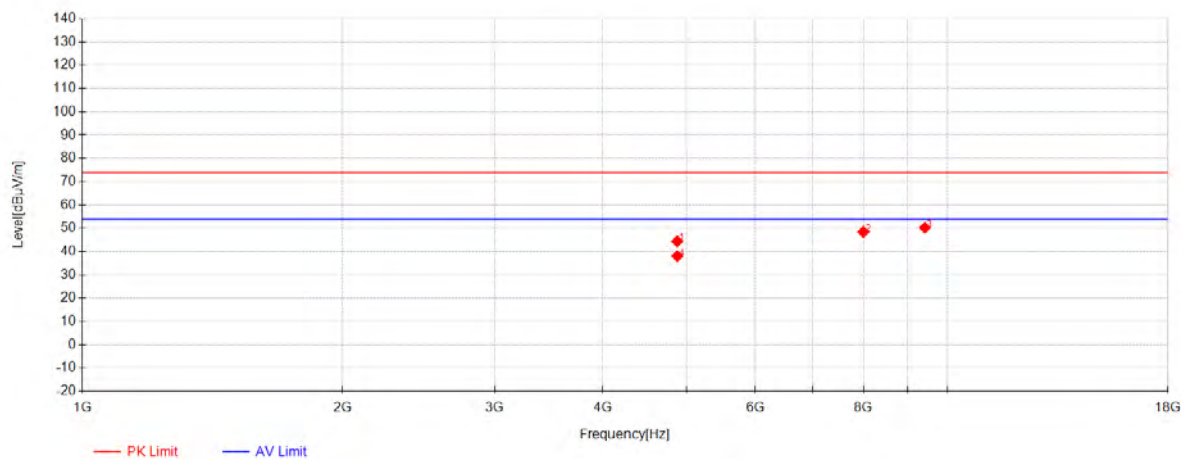
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 4874            | 59.66          | 32.92     | -41.28      | 51.30          | 74.00          | 22.70       | Horizontal |
| 2               | 7905            | 47.84          | 37.01     | -36.65      | 48.19          | 74.00          | 25.81       | Horizontal |
| 3               | 11339           | 42.26          | 38.40     | -30.17      | 50.49          | 74.00          | 23.51       | Horizontal |
| 4               | 4874.5          | 57.37          | 32.92     | -41.28      | 49.02          | 54.00          | 4.98        | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 100 of 180

802.11b ANT 2\_Channel 06



| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 4874.5          | 52.78          | 32.92     | -41.28      | 44.43          | 74.00          | 29.57       | Vertical |
| 2               | 7999.5          | 47.83          | 37.10     | -36.54      | 48.39          | 74.00          | 25.61       | Vertical |
| 3               | 9425            | 46.27          | 37.73     | -33.78      | 50.22          | 74.00          | 23.78       | Vertical |
| 4               | 4874.5          | 46.38          | 32.92     | -41.28      | 38.03          | 54.00          | 15.97       | Vertical |



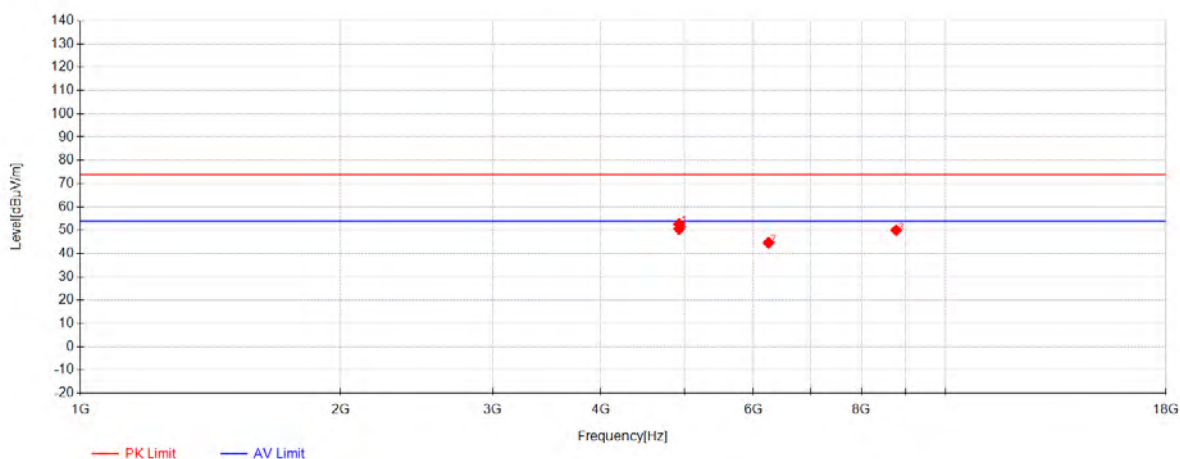
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 101 of 180

### 802.11b ANT 2\_Channel 11



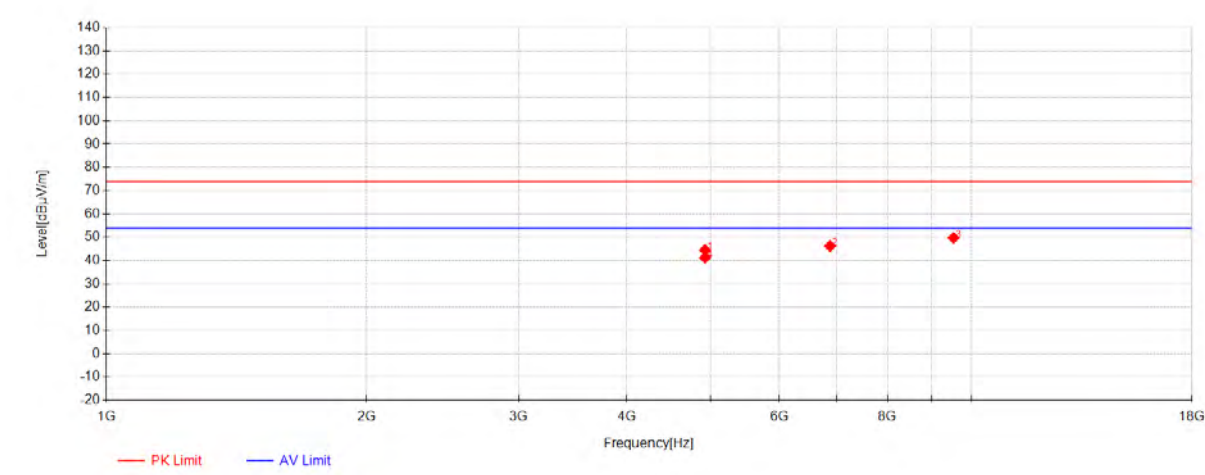
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 4924            | 60.88          | 33.03     | -41.26      | 52.65          | 74.00          | 21.35       | Horizontal |
| 2               | 6248            | 48.96          | 35.30     | -39.58      | 44.68          | 74.00          | 29.32       | Horizontal |
| 3               | 8778            | 47.54          | 37.49     | -35.02      | 50.01          | 74.00          | 23.99       | Horizontal |
| 4               | 4924.5          | 58.68          | 33.03     | -41.27      | 50.45          | 54.00          | 3.55        | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 102 of 180

802.11b ANT 2\_Channel 11



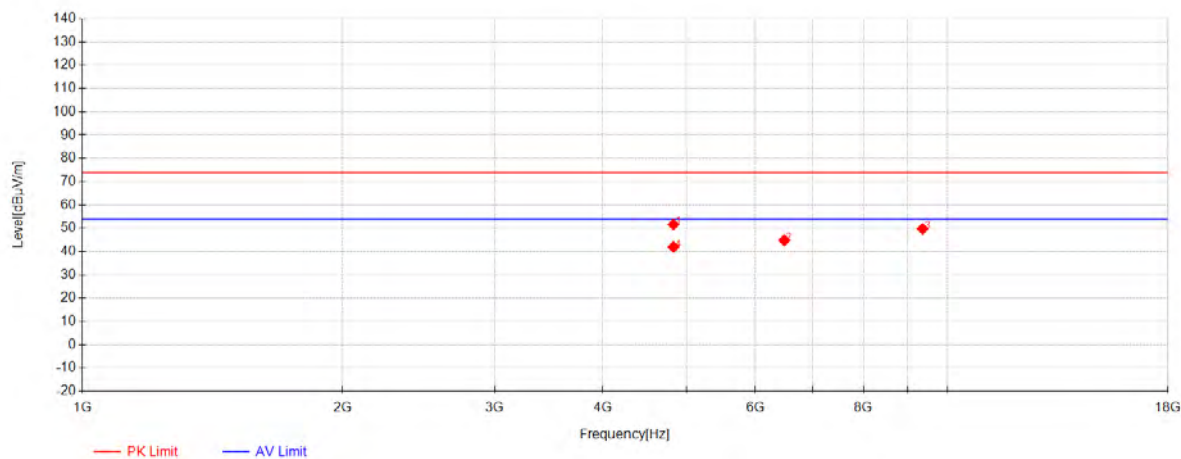
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 4923.5          | 52.75          | 33.03     | -41.26      | 44.52          | 74.00          | 29.48       | Vertical |
| 2               | 6868            | 48.65          | 35.95     | -38.37      | 46.23          | 74.00          | 27.77       | Vertical |
| 3               | 9543            | 45.66          | 37.76     | -33.71      | 49.71          | 74.00          | 24.29       | Vertical |
| 4               | 4924.5          | 49.46          | 33.03     | -41.27      | 41.23          | 54.00          | 12.77       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 103 of 180

802.11g ANT 2\_Channel 01



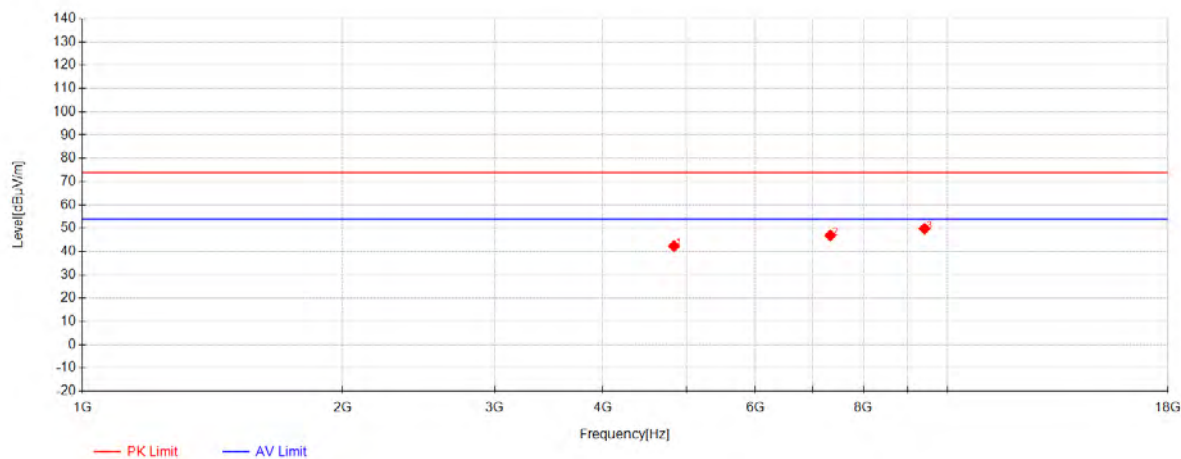
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 4825            | 60.19          | 32.82     | -41.43      | 51.58          | 74.00          | 22.42       | Horizontal |
| 2               | 6481.5          | 48.26          | 35.76     | -39.22      | 44.81          | 74.00          | 29.19       | Horizontal |
| 3               | 9367.5          | 45.89          | 37.71     | -33.88      | 49.72          | 74.00          | 24.28       | Horizontal |
| 4               | 4825.5          | 50.60          | 32.82     | -41.42      | 41.99          | 54.00          | 12.01       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 104 of 180

802.11g ANT 2\_Channel 01



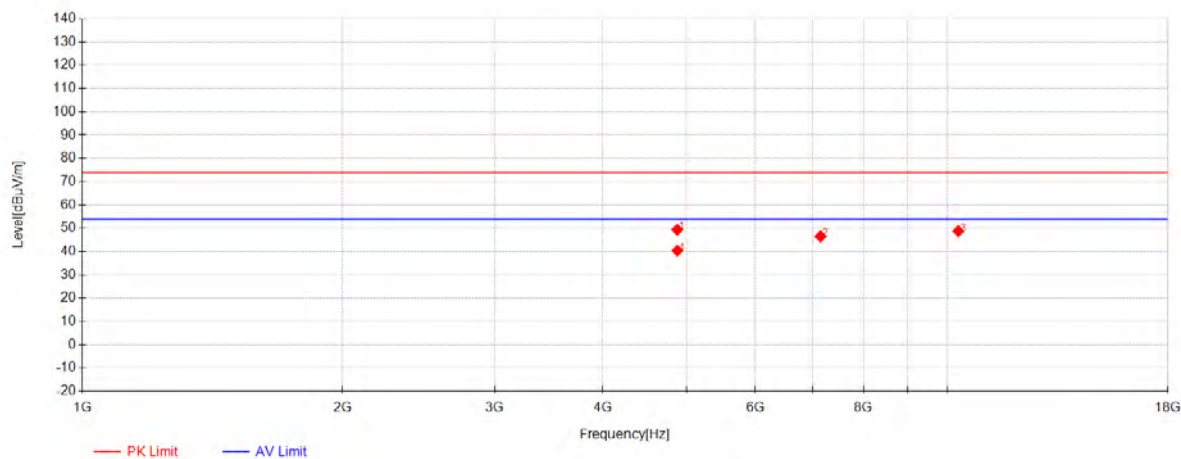
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 4832.5          | 50.99          | 32.83     | -41.40      | 42.42          | 74.00          | 31.58       | Vertical |
| 2               | 7326            | 48.00          | 36.39     | -37.50      | 46.89          | 74.00          | 27.11       | Vertical |
| 3               | 9416.5          | 45.84          | 37.72     | -33.77      | 49.79          | 74.00          | 24.21       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 105 of 180

802.11g ANT 2\_Channel 06



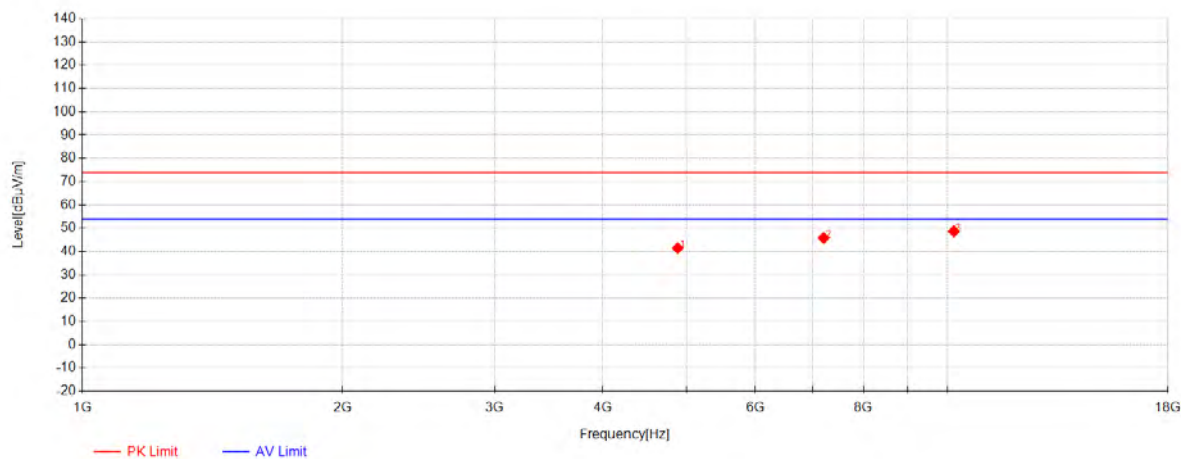
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 4875            | 57.68          | 32.93     | -41.28      | 49.33          | 74.00          | 24.67       | Horizontal |
| 2               | 7138.5          | 48.44          | 36.17     | -38.10      | 46.51          | 74.00          | 27.49       | Horizontal |
| 3               | 10302           | 42.89          | 38.05     | -32.20      | 48.74          | 74.00          | 25.26       | Horizontal |
| 4               | 4875.5          | 48.71          | 32.93     | -41.27      | 40.36          | 54.00          | 13.64       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 106 of 180

802.11g ANT 2\_Channel 06



| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 4880.5          | 49.82          | 32.94     | -41.26      | 41.50          | 74.00          | 32.50       | Vertical |
| 2               | 7197            | 47.65          | 36.24     | -38.06      | 45.82          | 74.00          | 28.18       | Vertical |
| 3               | 10181           | 42.73          | 37.99     | -32.07      | 48.65          | 74.00          | 25.35       | Vertical |



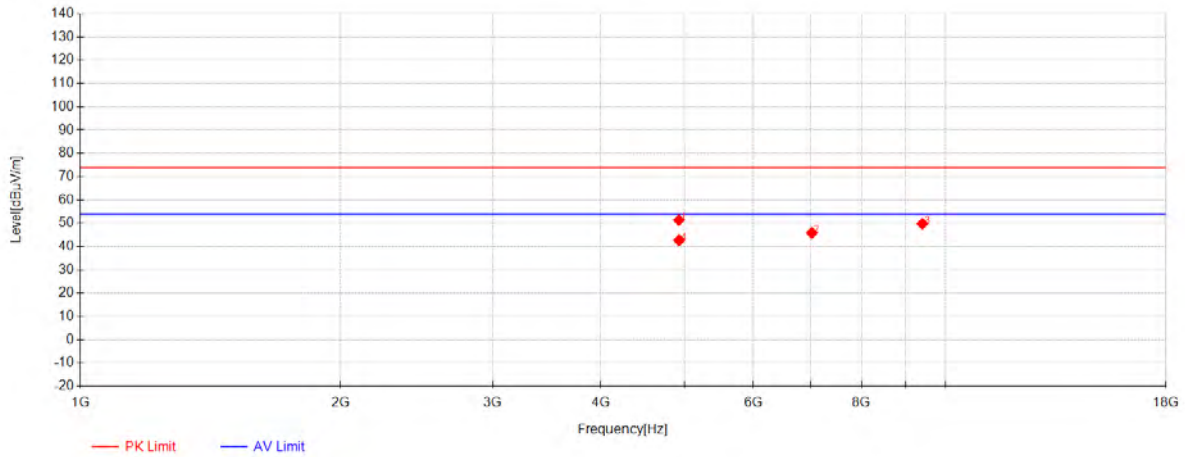
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 107 of 180

### 802.11g ANT 2\_Channel 11



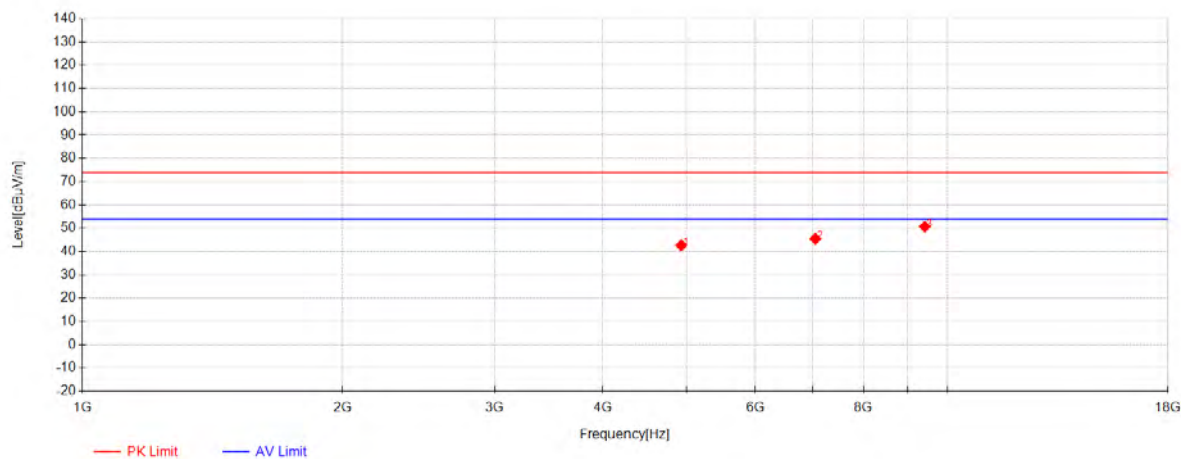
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 4922.5          | 59.54          | 33.03     | -41.26      | 51.31          | 74.00          | 22.69       | Horizontal |
| 2               | 7013            | 48.18          | 36.02     | -38.35      | 45.85          | 74.00          | 28.15       | Horizontal |
| 3               | 9414            | 45.82          | 37.72     | -33.77      | 49.78          | 74.00          | 24.22       | Horizontal |
| 4               | 4924.5          | 50.98          | 33.03     | -41.27      | 42.75          | 54.00          | 11.25       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 108 of 180

802.11g ANT 2\_Channel 11



| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 4926.5          | 50.95          | 33.04     | -41.27      | 42.72          | 74.00          | 31.28       | Vertical |
| 2               | 7040            | 47.70          | 36.05     | -38.28      | 45.47          | 74.00          | 28.53       | Vertical |
| 3               | 9422.5          | 46.74          | 37.73     | -33.78      | 50.69          | 74.00          | 23.31       | Vertical |



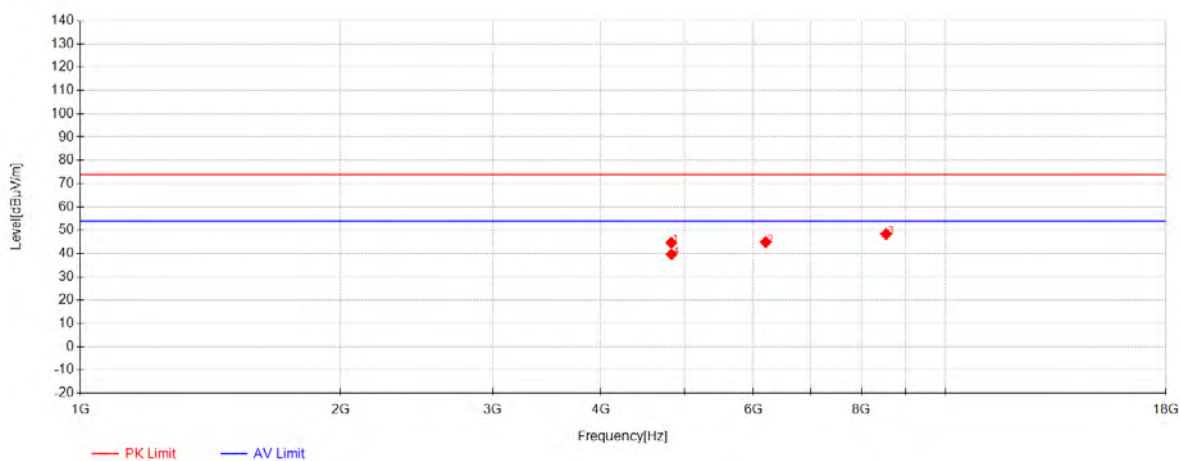
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 109 of 180

### 802.11b ANT 3\_Channel 01



| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 4824            | 53.29          | 32.81     | -41.43      | 44.67          | 74.00          | 29.33       | Horizontal |
| 2               | 6202            | 49.32          | 35.20     | -39.60      | 44.92          | 74.00          | 29.08       | Horizontal |
| 3               | 8545            | 46.35          | 37.37     | -35.39      | 48.33          | 74.00          | 25.67       | Horizontal |
| 4               | 4824.5          | 48.25          | 32.81     | -41.43      | 39.64          | 54.00          | 14.36       | Horizontal |



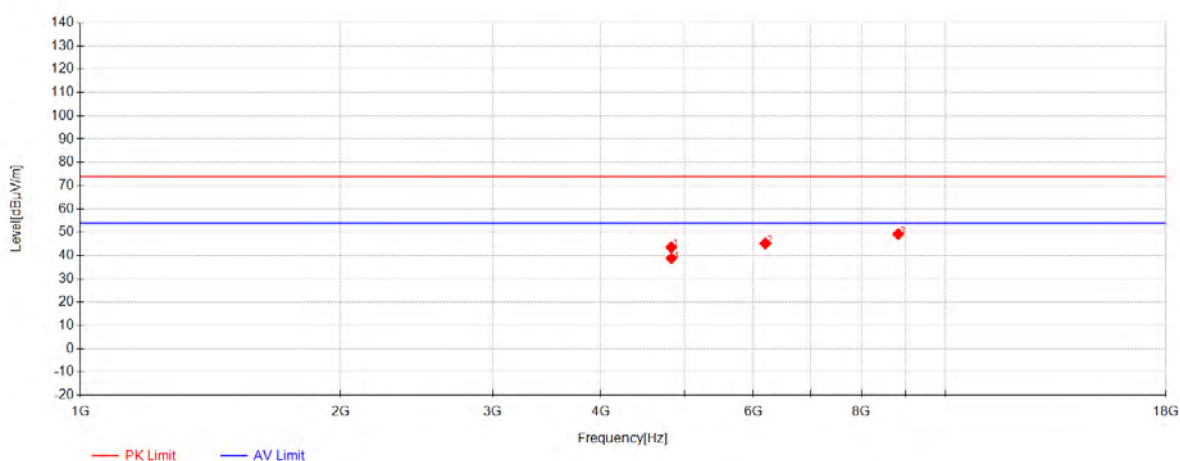
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 110 of 180

### 802.11b ANT 3\_Channel 01



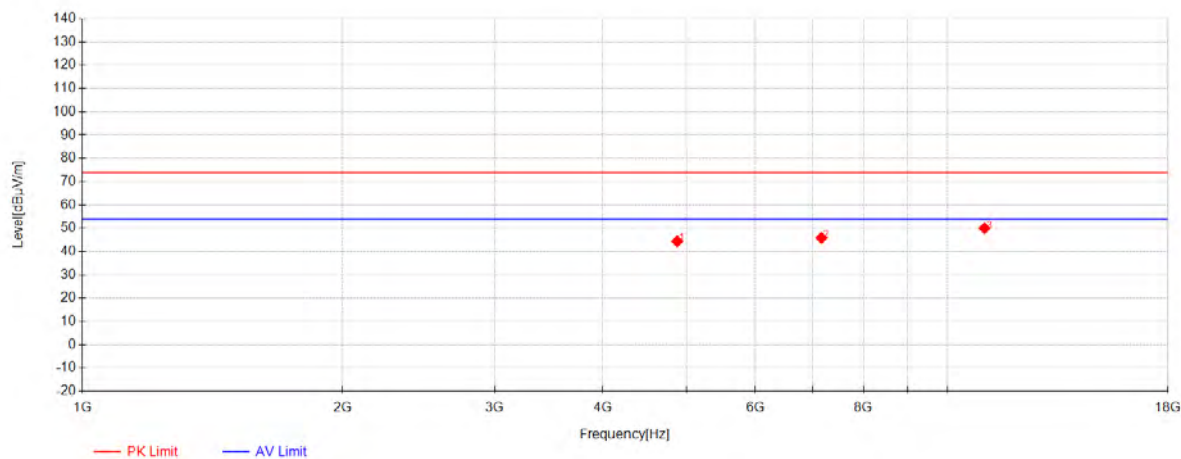
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 4823.5          | 52.22          | 32.81     | -41.43      | 43.60          | 74.00          | 30.40       | Vertical |
| 2               | 6195.5          | 49.61          | 35.19     | -39.61      | 45.19          | 74.00          | 28.81       | Vertical |
| 3               | 8824            | 46.57          | 37.51     | -34.93      | 49.16          | 74.00          | 24.84       | Vertical |
| 4               | 4824.5          | 47.41          | 32.81     | -41.43      | 38.80          | 54.00          | 15.20       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 111 of 180

802.11b ANT 3\_Channel 06



| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 4874            | 52.79          | 32.92     | -41.28      | 44.43          | 74.00          | 29.57       | Horizontal |
| 2               | 7156            | 47.74          | 36.19     | -38.09      | 45.84          | 74.00          | 28.16       | Horizontal |
| 3               | 11047           | 41.80          | 38.40     | -30.19      | 50.01          | 74.00          | 23.99       | Horizontal |



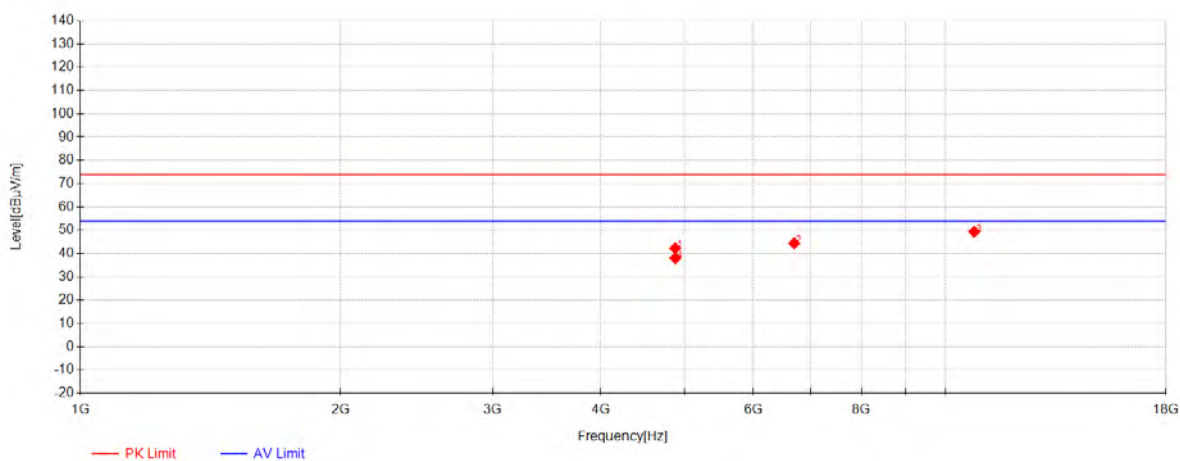
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 112 of 180

### 802.11b ANT 3\_Channel 06



| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 4874            | 50.69          | 32.92     | -41.28      | 42.33          | 74.00          | 31.67       | Vertical |
| 2               | 6691            | 47.34          | 35.88     | -38.79      | 44.43          | 74.00          | 29.57       | Vertical |
| 3               | 10803.5         | 41.64          | 38.30     | -30.63      | 49.31          | 74.00          | 24.69       | Vertical |
| 4               | 4874.5          | 46.35          | 32.92     | -41.28      | 38.00          | 54.00          | 16.00       | Vertical |



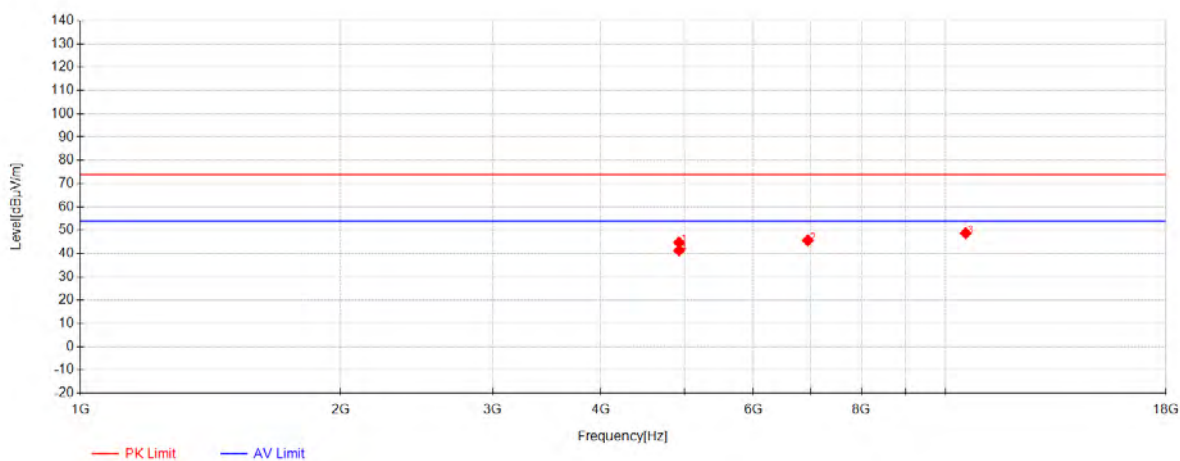
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 113 of 180

### 802.11b ANT 3\_Channel 11



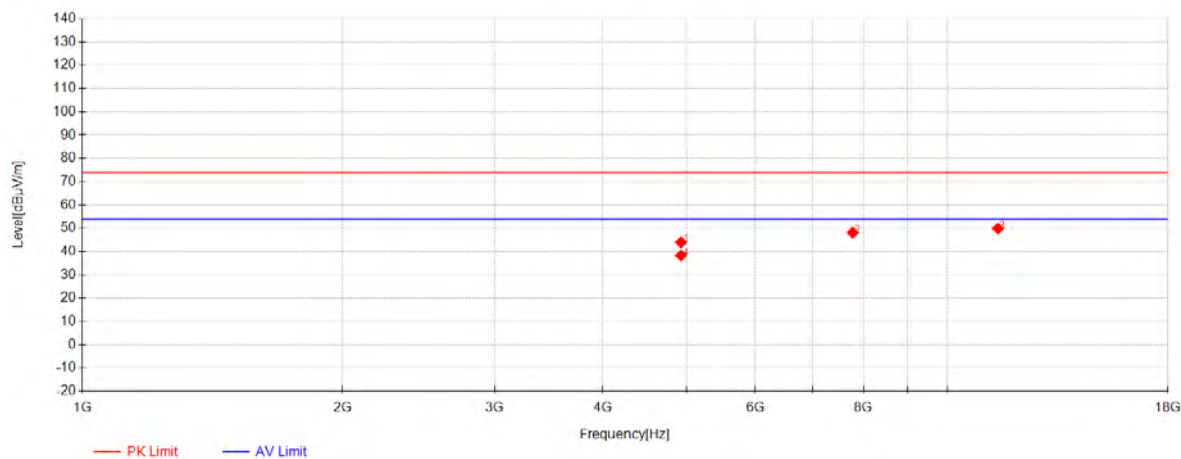
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 4924            | 53.00          | 33.03     | -41.26      | 44.77          | 74.00          | 29.23       | Horizontal |
| 2               | 6938            | 48.03          | 35.98     | -38.35      | 45.66          | 74.00          | 28.34       | Horizontal |
| 3               | 10563           | 41.78          | 38.18     | -31.27      | 48.69          | 74.00          | 25.31       | Horizontal |
| 4               | 4924.5          | 49.54          | 33.03     | -41.27      | 41.31          | 54.00          | 12.69       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 114 of 180

802.11b ANT 3\_Channel 11



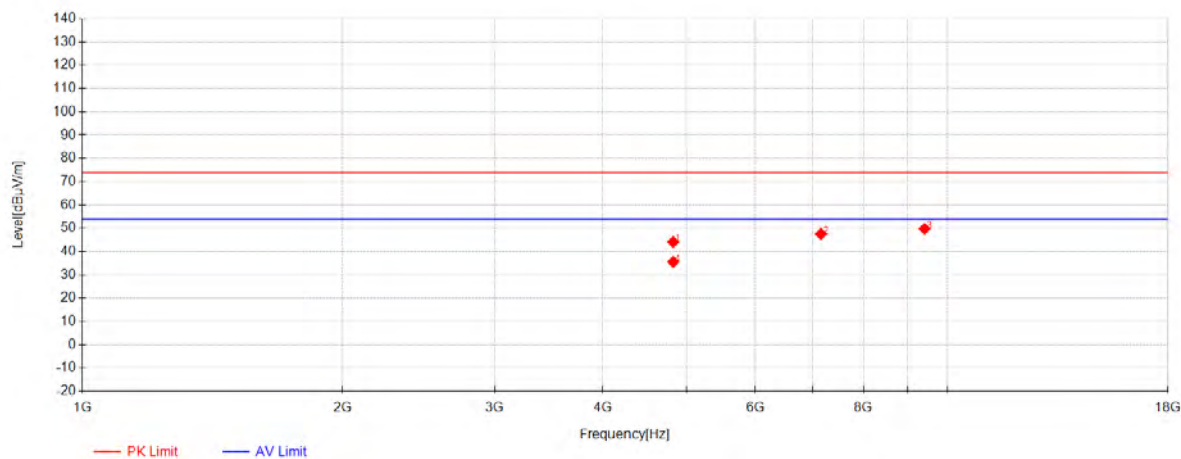
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 4924            | 52.20          | 33.03     | -41.26      | 43.97          | 74.00          | 30.03       | Vertical |
| 2               | 7777            | 48.08          | 36.88     | -36.90      | 48.06          | 74.00          | 25.94       | Vertical |
| 3               | 11449           | 41.66          | 38.40     | -30.18      | 49.88          | 74.00          | 24.12       | Vertical |
| 4               | 4924.5          | 46.55          | 33.03     | -41.27      | 38.32          | 54.00          | 15.68       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 115 of 180

802.11g ANT 3\_Channel 01



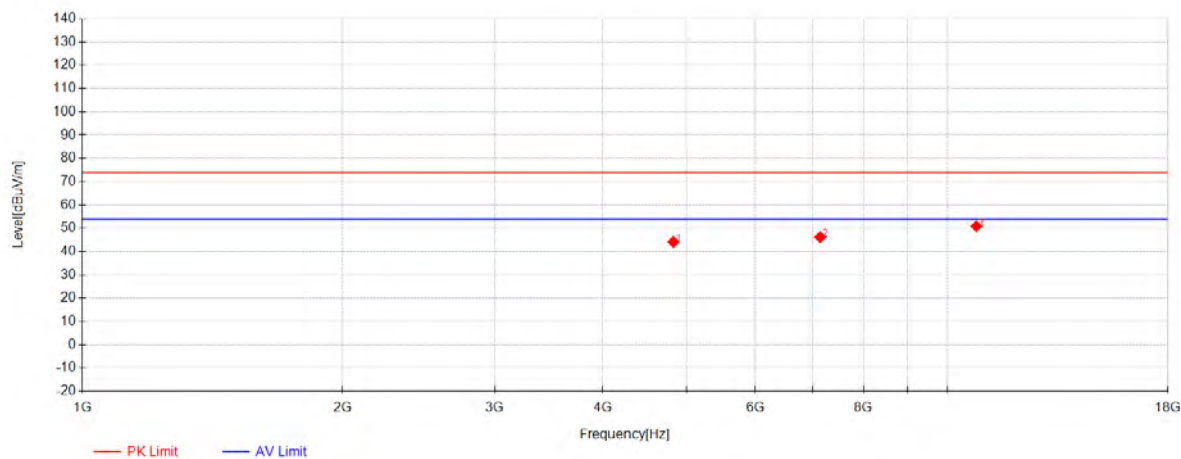
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 4822            | 52.77          | 32.81     | -41.43      | 44.14          | 74.00          | 29.86       | Horizontal |
| 2               | 7145.5          | 49.41          | 36.17     | -38.09      | 47.49          | 74.00          | 26.51       | Horizontal |
| 3               | 9417.5          | 45.81          | 37.73     | -33.77      | 49.76          | 74.00          | 24.24       | Horizontal |
| 4               | 4822.5          | 44.16          | 32.81     | -41.43      | 35.54          | 54.00          | 18.46       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 116 of 180

802.11g ANT 3\_Channel 01



| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 4825.5          | 52.73          | 32.82     | -41.42      | 44.12          | 74.00          | 29.88       | Vertical |
| 2               | 7131            | 48.11          | 36.16     | -38.10      | 46.17          | 74.00          | 27.83       | Vertical |
| 3               | 10810.5         | 43.20          | 38.31     | -30.63      | 50.87          | 74.00          | 23.13       | Vertical |



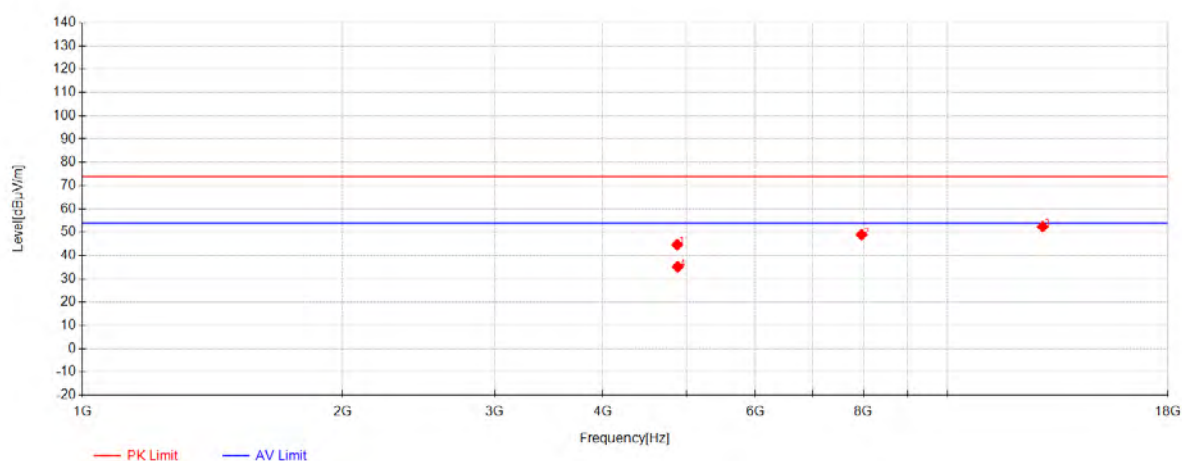
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 117 of 180

### 802.11g ANT 3\_Channel 06



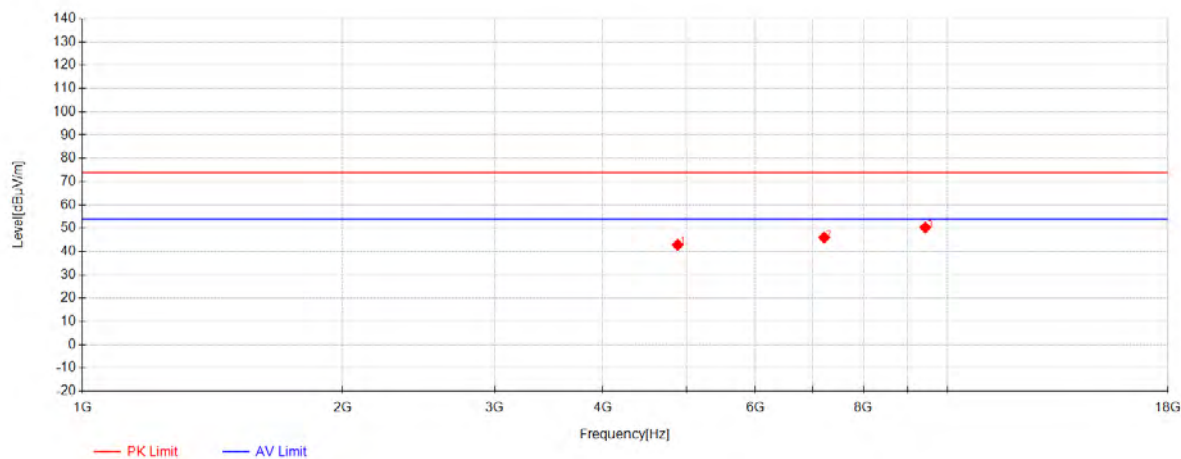
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 4874            | 53.02          | 32.92     | -41.28      | 44.66          | 74.00          | 29.34       | Horizontal |
| 2               | 7962            | 48.41          | 37.06     | -36.59      | 48.89          | 74.00          | 25.11       | Horizontal |
| 3               | 12896           | 42.92          | 39.48     | -30.02      | 52.37          | 74.00          | 21.63       | Horizontal |
| 4               | 4880            | 43.47          | 32.94     | -41.26      | 35.15          | 54.00          | 18.85       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 118 of 180

802.11g ANT 3\_Channel 06



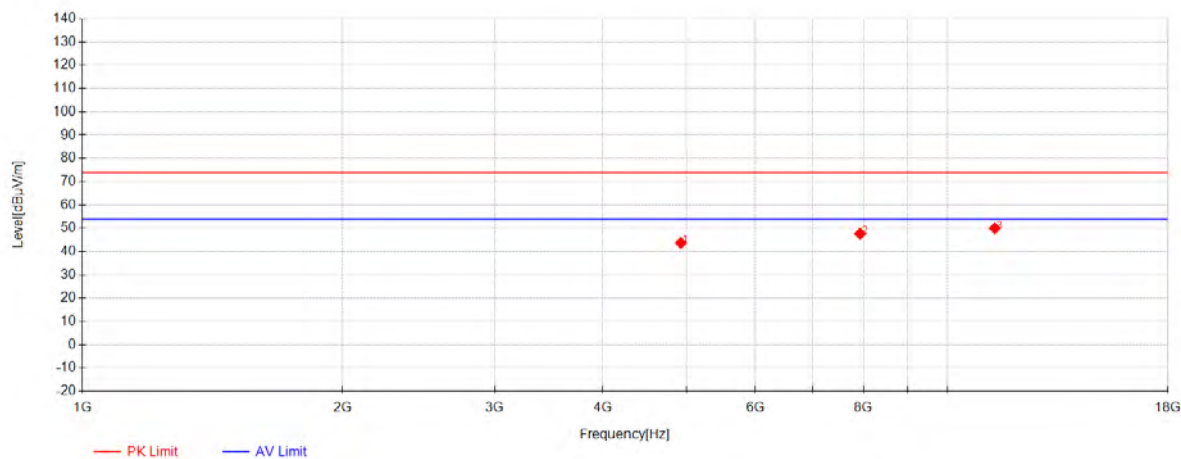
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 4879.5          | 51.24          | 32.93     | -41.26      | 42.91          | 74.00          | 31.09       | Vertical |
| 2               | 7208            | 47.74          | 36.25     | -38.00      | 45.99          | 74.00          | 28.01       | Vertical |
| 3               | 9434.5          | 46.33          | 37.73     | -33.79      | 50.27          | 74.00          | 23.73       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 119 of 180

802.11g ANT 3\_Channel 11



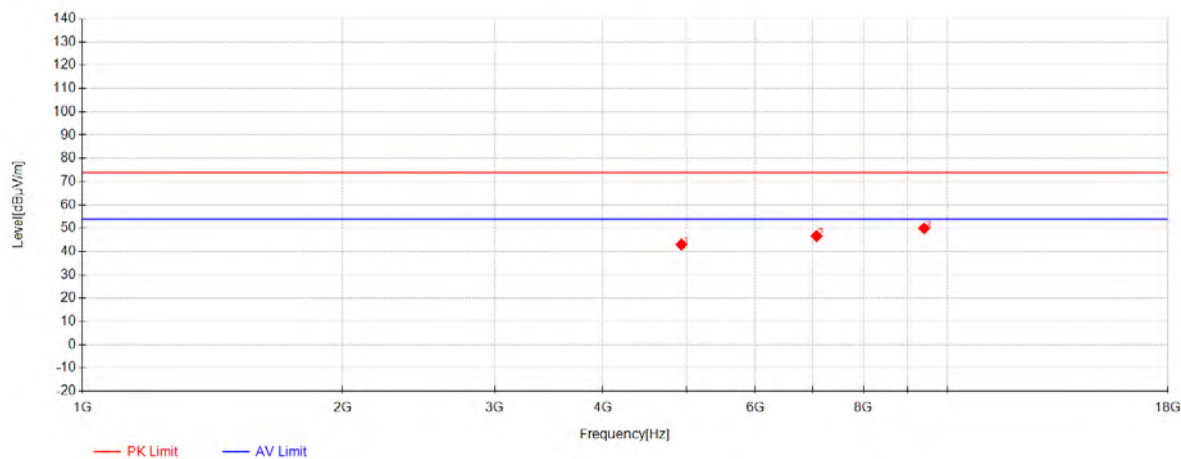
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 4922            | 51.94          | 33.03     | -41.26      | 43.71          | 74.00          | 30.29       | Horizontal |
| 2               | 7932.5          | 47.22          | 37.03     | -36.62      | 47.63          | 74.00          | 26.37       | Horizontal |
| 3               | 11354.5         | 41.79          | 38.40     | -30.22      | 49.97          | 74.00          | 24.03       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 120 of 180

802.11g ANT 3\_Channel 11



| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 4929            | 51.27          | 33.04     | -41.28      | 43.04          | 74.00          | 30.96       | Vertical |
| 2               | 7062.5          | 48.77          | 36.08     | -38.22      | 46.63          | 74.00          | 27.37       | Vertical |
| 3               | 9405            | 45.98          | 37.72     | -33.76      | 49.95          | 74.00          | 24.05       | Vertical |



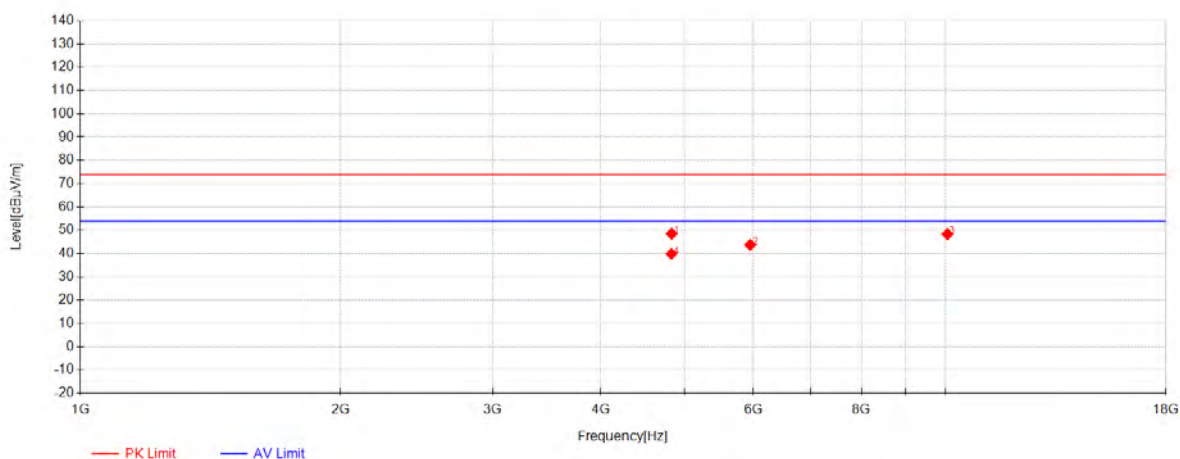
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 121 of 180

### 802.11n20 MIMO\_Channel 01



| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 4828            | 57.08          | 32.82     | -41.42      | 48.49          | 74.00          | 25.51       | Horizontal |
| 2               | 5951            | 49.32          | 34.63     | -40.23      | 43.72          | 74.00          | 30.28       | Horizontal |
| 3               | 10059.5         | 42.62          | 37.93     | -32.29      | 48.26          | 74.00          | 25.74       | Horizontal |
| 4               | 4824.5          | 48.44          | 32.81     | -41.43      | 39.83          | 54.00          | 14.17       | Horizontal |



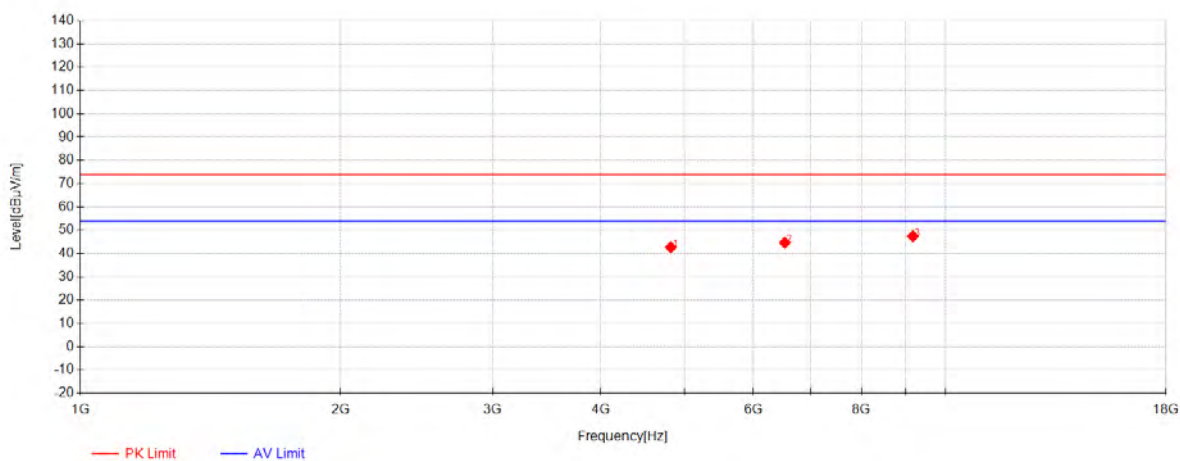
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 122 of 180

### 802.11n20 MIMO\_Channel 01



| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 4817.5          | 51.39          | 32.80     | -41.45      | 42.74          | 74.00          | 31.26       | Vertical |
| 2               | 6525.5          | 48.03          | 35.81     | -39.17      | 44.67          | 74.00          | 29.33       | Vertical |
| 3               | 9177.5          | 44.24          | 37.65     | -34.51      | 47.38          | 74.00          | 26.62       | Vertical |



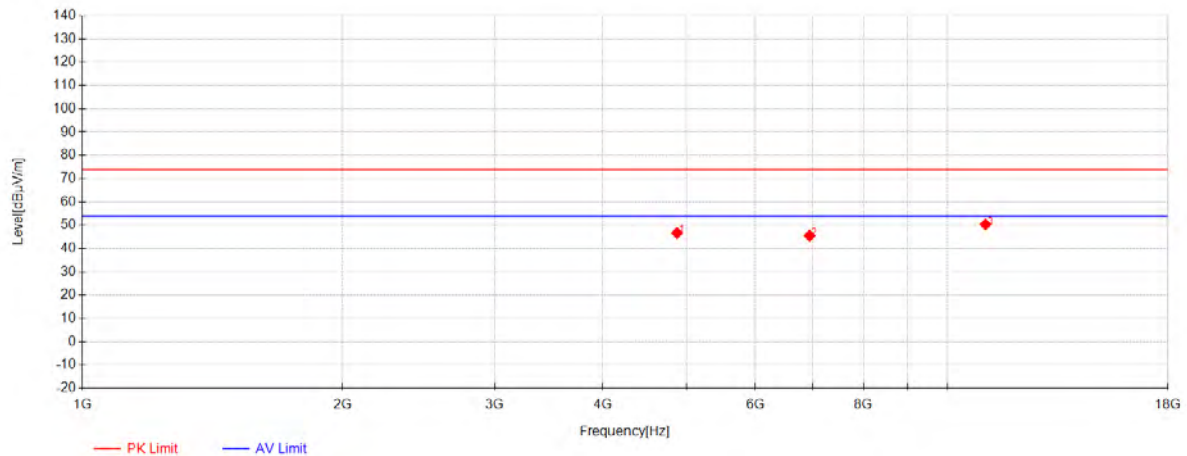
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 123 of 180

### 802.11n20 MIMO\_Channel 06



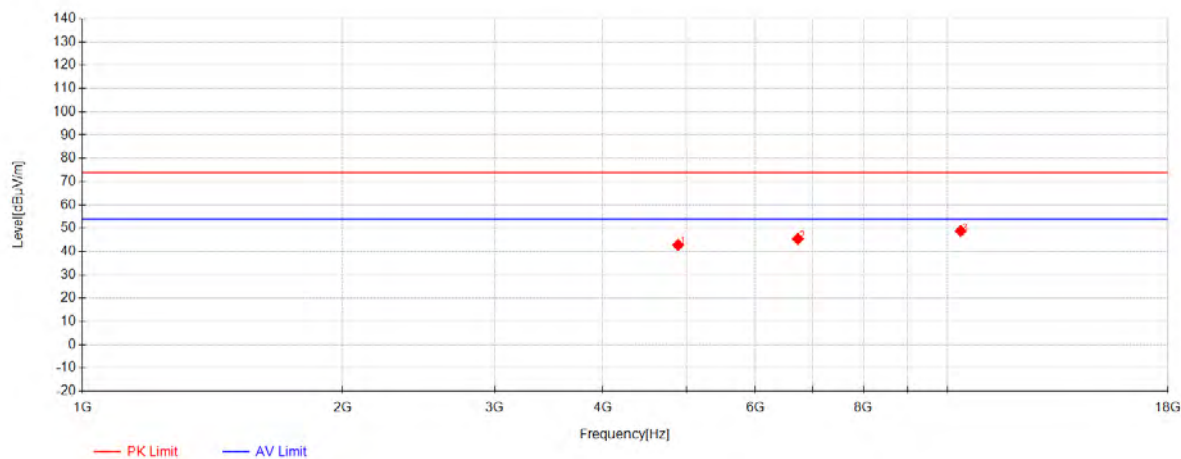
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 4871.5          | 55.03          | 32.92     | -41.29      | 46.66          | 74.00          | 27.34       | Horizontal |
| 2               | 6934            | 47.88          | 35.97     | -38.35      | 45.51          | 74.00          | 28.49       | Horizontal |
| 3               | 11076           | 42.16          | 38.40     | -30.23      | 50.33          | 74.00          | 23.67       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 124 of 180

802.11n20 MIMO\_Channel 06



| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 4885.5          | 51.14          | 32.95     | -41.24      | 42.84          | 74.00          | 31.16       | Vertical |
| 2               | 6720            | 48.25          | 35.89     | -38.71      | 45.43          | 74.00          | 28.57       | Vertical |
| 3               | 10366.5         | 42.39          | 38.08     | -31.71      | 48.77          | 74.00          | 25.23       | Vertical |



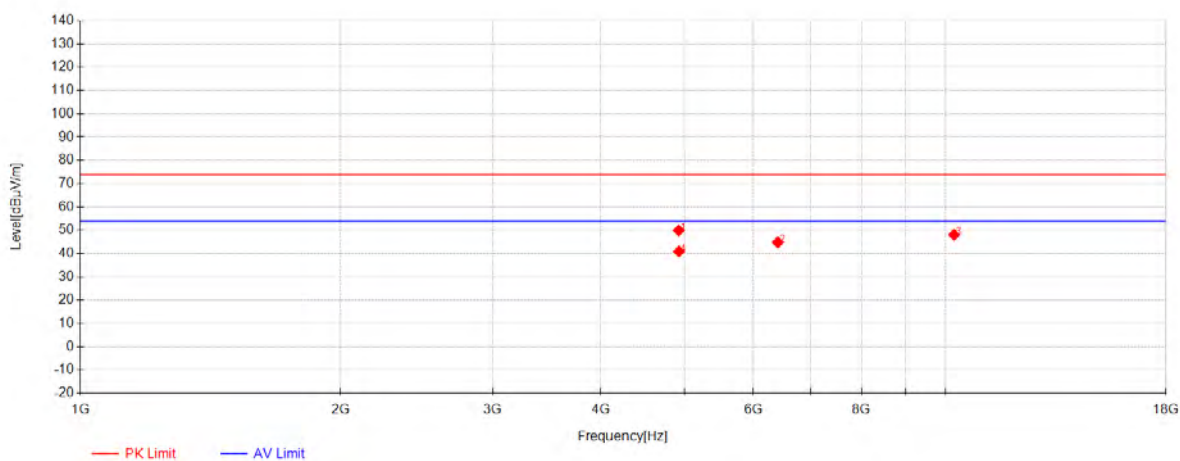
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 125 of 180

### 802.11n20 MIMO\_Channel 11



| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 4920            | 58.13          | 33.02     | -41.25      | 49.90          | 74.00          | 24.10       | Horizontal |
| 2               | 6404            | 48.39          | 35.61     | -39.16      | 44.84          | 74.00          | 29.16       | Horizontal |
| 3               | 10240           | 42.08          | 38.02     | -32.11      | 47.99          | 74.00          | 26.01       | Horizontal |
| 4               | 4923            | 49.11          | 33.03     | -41.26      | 40.88          | 54.00          | 13.12       | Horizontal |



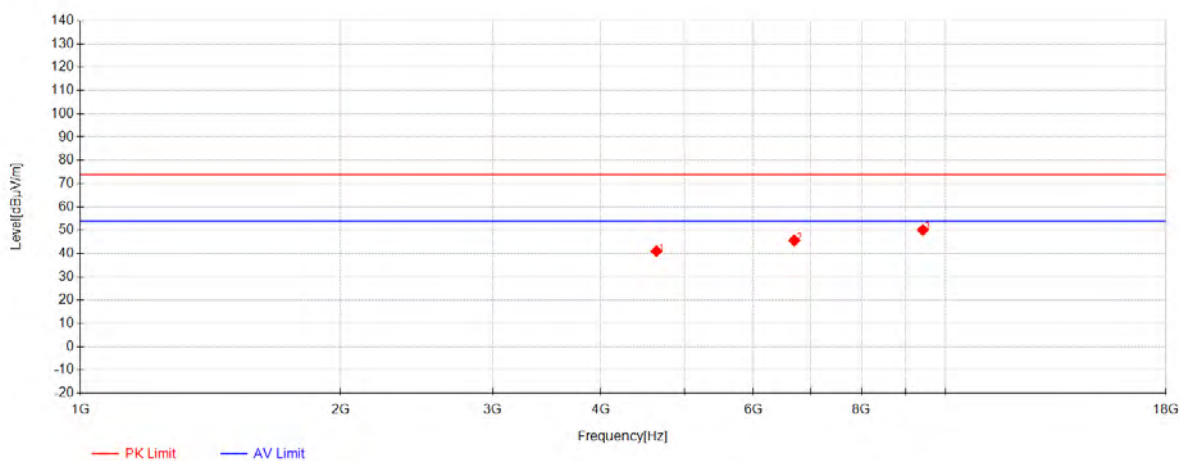
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 126 of 180

### 802.11n20 MIMO\_Channel 11



| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 4636.5          | 50.18          | 32.40     | -41.57      | 41.01          | 74.00          | 32.99       | Vertical |
| 2               | 6692.5          | 48.52          | 35.88     | -38.79      | 45.61          | 74.00          | 28.39       | Vertical |
| 3               | 9423.5          | 46.14          | 37.73     | -33.78      | 50.09          | 74.00          | 23.91       | Vertical |



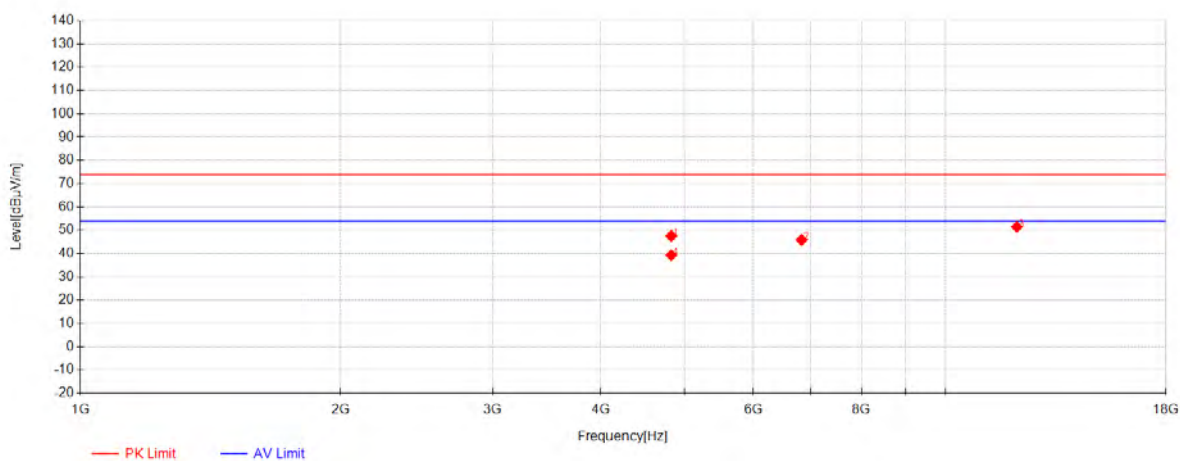
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 127 of 180

### 802.11ax20 MIMO\_Channel 01



| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 4823.5          | 56.14          | 32.81     | -41.43      | 47.52          | 74.00          | 26.48       | Horizontal |
| 2               | 6823            | 48.34          | 35.93     | -38.43      | 45.84          | 74.00          | 28.16       | Horizontal |
| 3               | 12103.5         | 42.15          | 38.52     | -29.27      | 51.41          | 74.00          | 22.59       | Horizontal |
| 4               | 4823.5          | 47.93          | 32.81     | -41.43      | 39.31          | 54.00          | 14.69       | Horizontal |



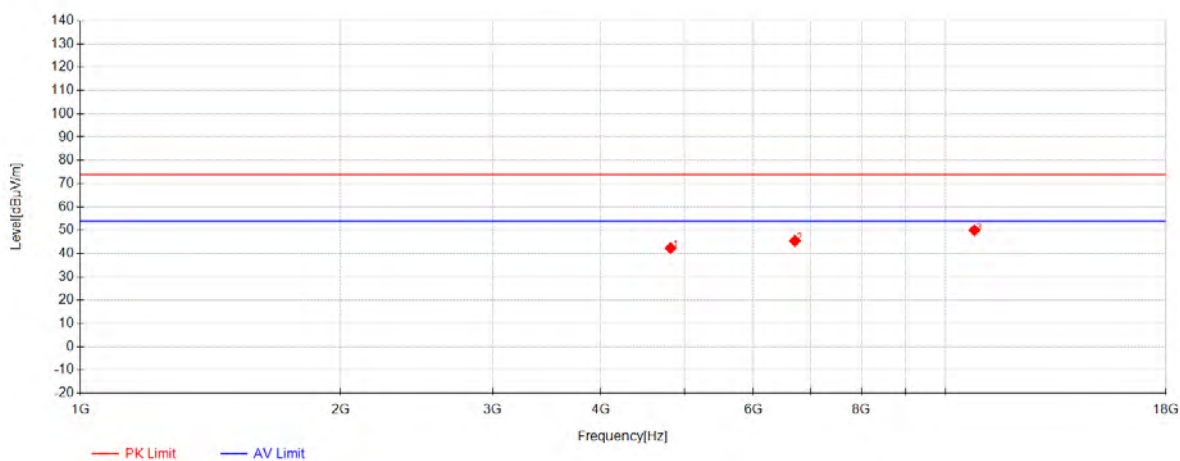
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 128 of 180

### 802.11ax20 MIMO\_Channel 01



| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 4814            | 51.05          | 32.79     | -41.46      | 42.38          | 74.00          | 31.62       | Vertical |
| 2               | 6703.5          | 48.32          | 35.88     | -38.76      | 45.44          | 74.00          | 28.56       | Vertical |
| 3               | 10811           | 42.30          | 38.31     | -30.63      | 49.97          | 74.00          | 24.03       | Vertical |



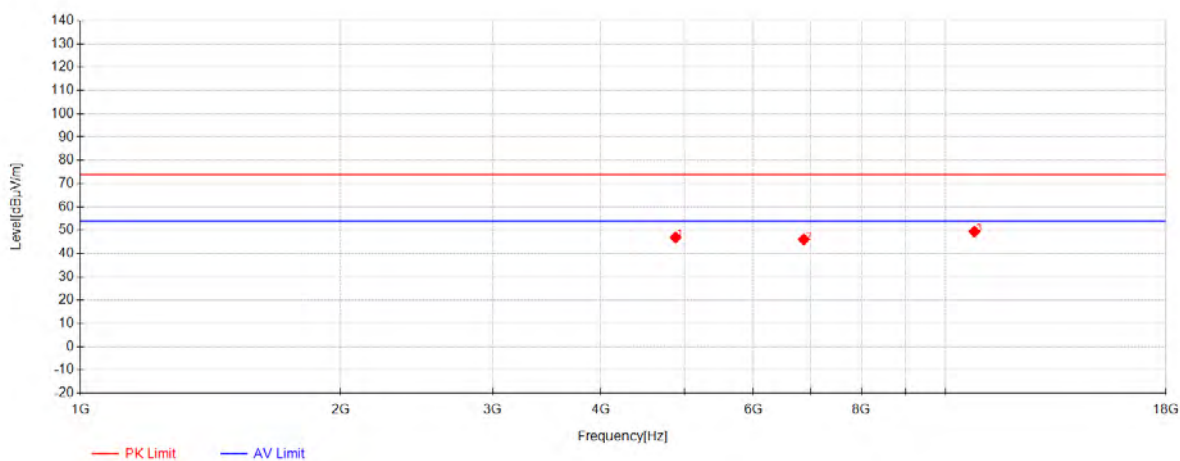
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 129 of 180

### 802.11ax20 MIMO\_Channel 06



| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 4879            | 55.23          | 32.93     | -41.26      | 46.90          | 74.00          | 27.10       | Horizontal |
| 2               | 6863            | 48.47          | 35.95     | -38.38      | 46.04          | 74.00          | 27.96       | Horizontal |
| 3               | 10809.5         | 41.72          | 38.30     | -30.63      | 49.39          | 74.00          | 24.61       | Horizontal |



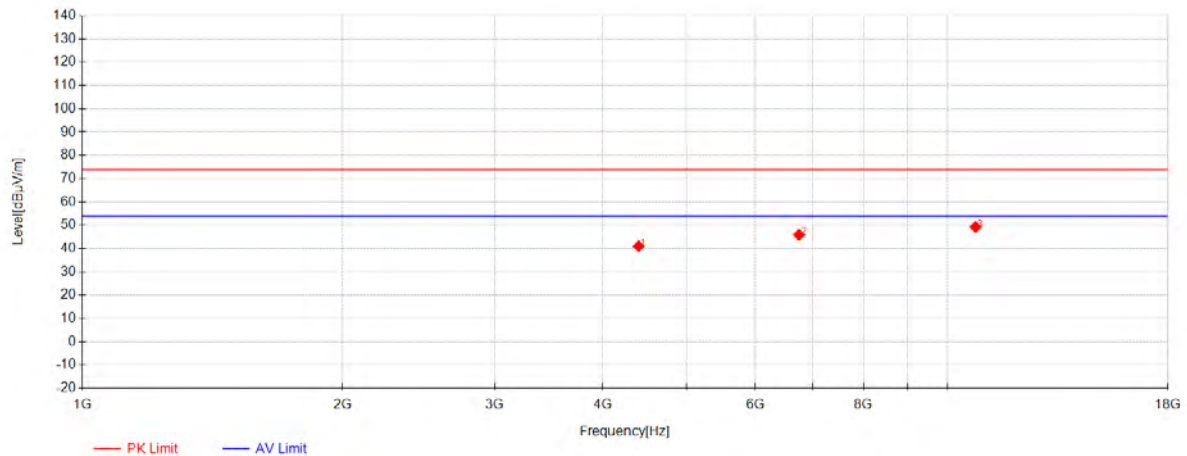
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 130 of 180

### 802.11ax20 MIMO\_Channel 06



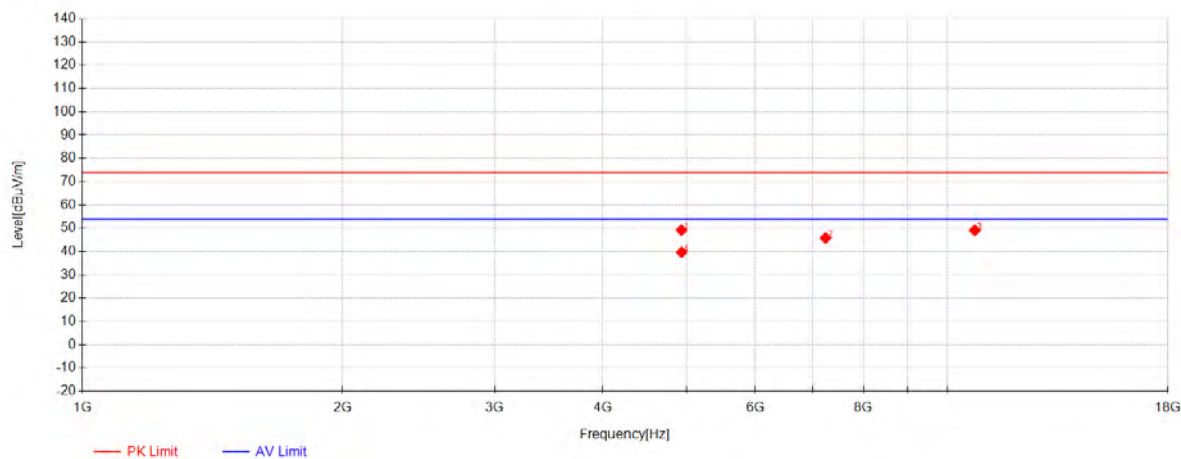
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 4398            | 51.21          | 31.94     | -42.15      | 41.00          | 74.00          | 33.00       | Vertical |
| 2               | 6740            | 48.64          | 35.90     | -38.65      | 45.89          | 74.00          | 28.11       | Vertical |
| 3               | 10786           | 41.55          | 38.29     | -30.62      | 49.22          | 74.00          | 24.78       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

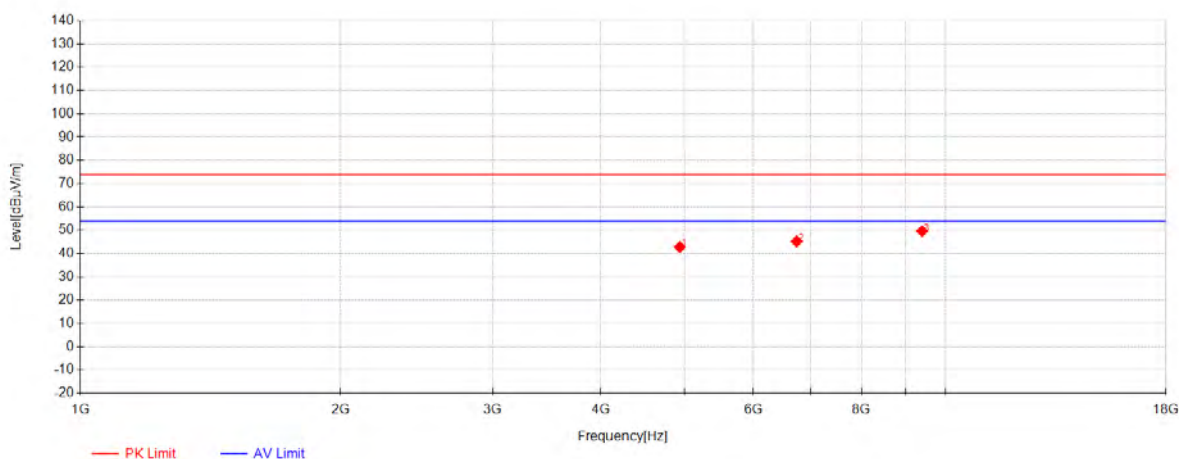
Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 131 of 180

802.11ax20 MIMO\_Channel 11



| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 4929.5          | 57.37          | 33.04     | -41.28      | 49.14          | 74.00          | 24.86       | Horizontal |
| 2               | 7235.5          | 47.35          | 36.28     | -37.81      | 45.82          | 74.00          | 28.18       | Horizontal |
| 3               | 10764           | 41.36          | 38.28     | -30.61      | 49.03          | 74.00          | 24.97       | Horizontal |
| 4               | 4931.5          | 47.90          | 33.05     | -41.29      | 39.66          | 54.00          | 14.34       | Horizontal |

## 802.11ax20 MIMO\_Channel 11



| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 4934.5          | 51.09          | 33.06     | -41.29      | 42.85          | 74.00          | 31.15       | Vertical |
| 2               | 6734.5          | 48.00          | 35.89     | -38.66      | 45.23          | 74.00          | 28.77       | Vertical |
| 3               | 9405.5          | 45.64          | 37.72     | -33.76      | 49.60          | 74.00          | 24.40       | Vertical |

### Remark:

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

$$\text{Level} = \text{Reading}(\text{dB}\mu\text{V}) + \text{AF}(\text{dB}/\text{m}) + \text{Factor}(\text{dB})$$

$$\text{AF} = \text{Antenna Factor}(\text{dB}/\text{m})$$

$$\text{Factor} = \text{Cable Factor}(\text{dB}) - \text{Preamplifier gain}(\text{dB})$$

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Level}(\text{dB}\mu\text{V}/\text{m})$$
- All channels have been tested, but only the worst case data displayed in this report.
- Both peak and average measured complies with the limit line, so test result is "PASS"



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

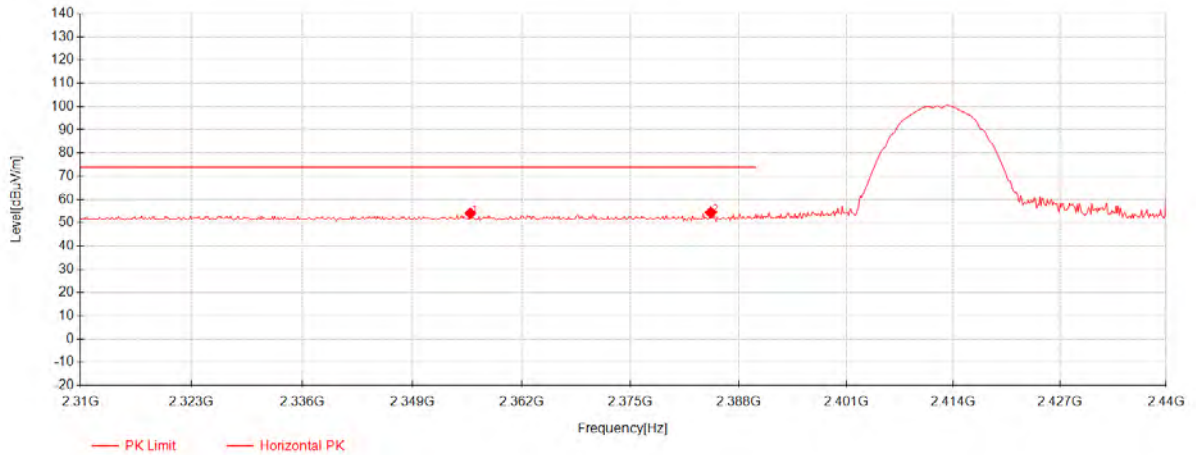
Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 133 of 180

### Restricted bands around fundamental frequency

#### 802.11b ANT 2\_Channel 01



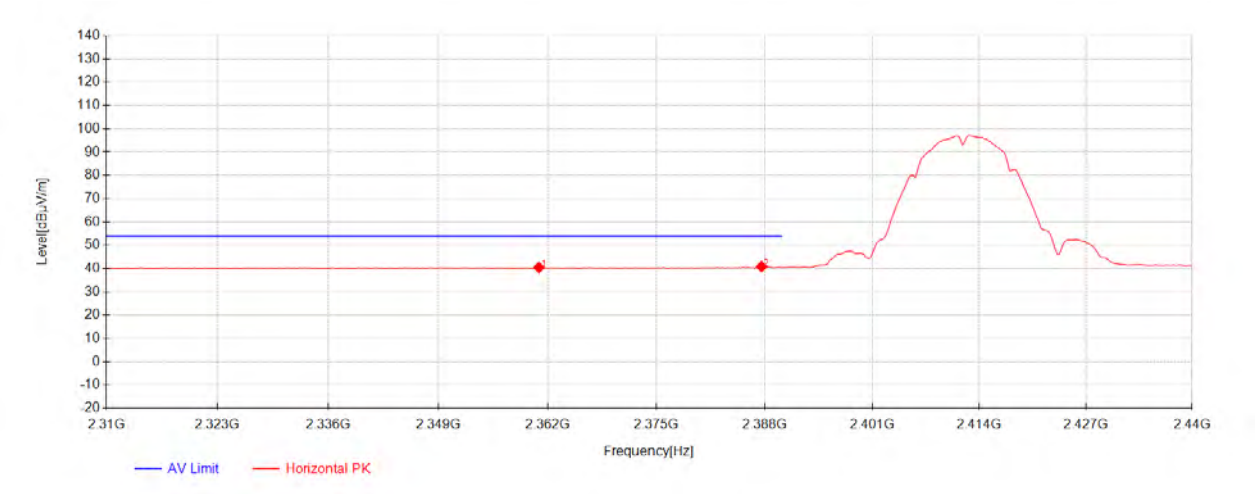
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2355.89         | 50.32          | 27.08     | -23.29      | 54.11          | 74.00          | 19.89       | Horizontal |
| 2               | 2384.62         | 50.62          | 27.15     | -23.31      | 54.46          | 74.00          | 19.54       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 134 of 180

802.11b ANT 2\_Channel 01



| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2360.96         | 36.66          | 27.09     | -23.29      | 40.46          | 54.00          | 13.54       | Horizontal |
| 2               | 2387.61         | 36.99          | 27.15     | -23.31      | 40.83          | 54.00          | 13.17       | Horizontal |



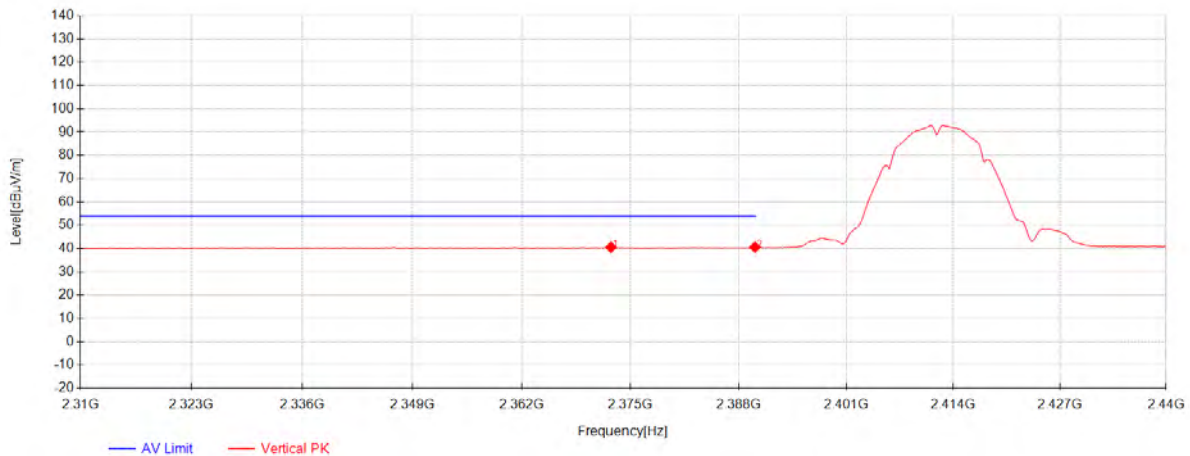
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 135 of 180

### 802.11b ANT 2\_Channel 01



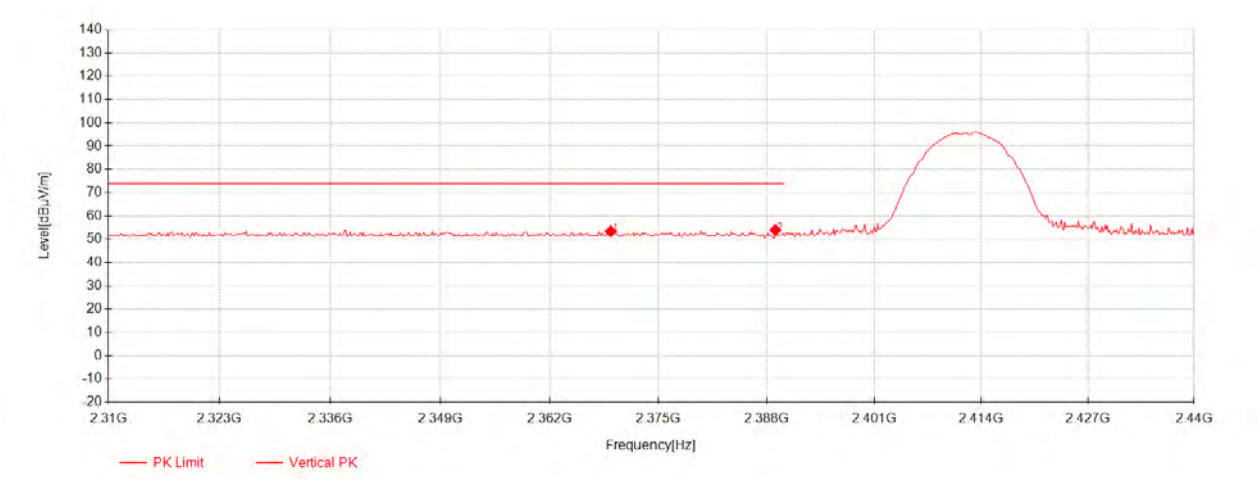
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2372.66         | 36.75          | 27.12     | -23.30      | 40.57          | 54.00          | 13.43       | Vertical |
| 2               | 2389.95         | 36.75          | 27.16     | -23.31      | 40.59          | 54.00          | 13.41       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 136 of 180

802.11b ANT 2\_Channel 01



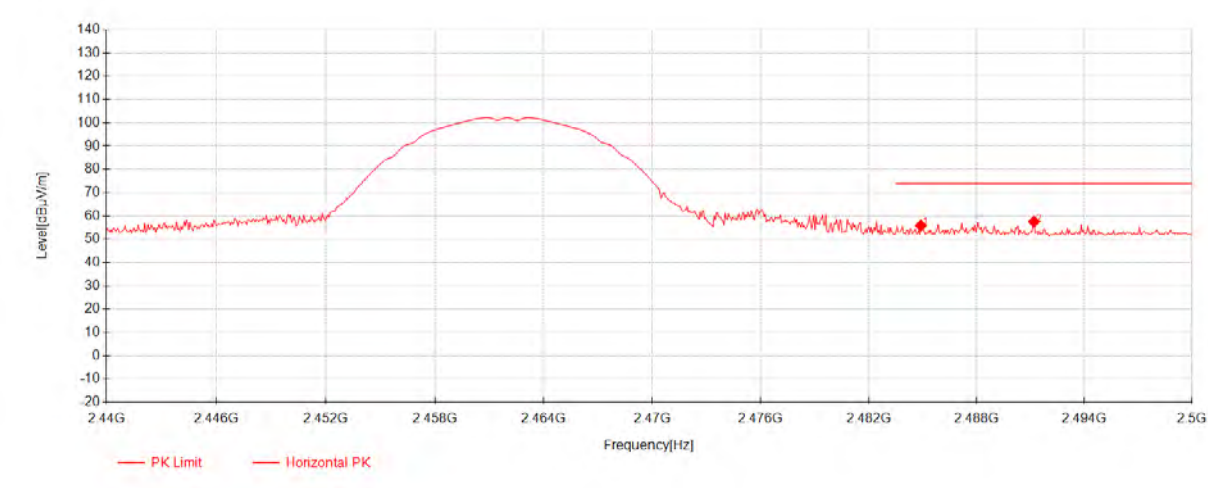
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2369.28         | 49.61          | 27.11     | -23.30      | 53.42          | 74.00          | 20.58       | Vertical |
| 2               | 2389.04         | 50.17          | 27.16     | -23.31      | 54.01          | 74.00          | 19.99       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 137 of 180

802.11b ANT 2\_Channel 11



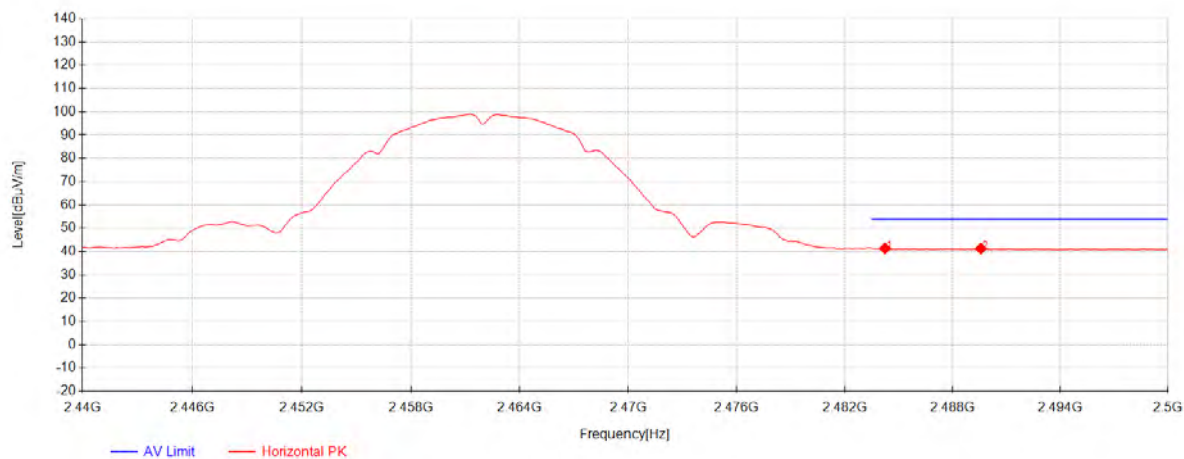
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2484.88         | 51.76          | 27.37     | -23.27      | 55.86          | 74.00          | 18.14       | Horizontal |
| 2               | 2491.18         | 53.40          | 27.38     | -23.27      | 57.52          | 74.00          | 16.48       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 138 of 180

802.11b ANT 2\_Channel 11



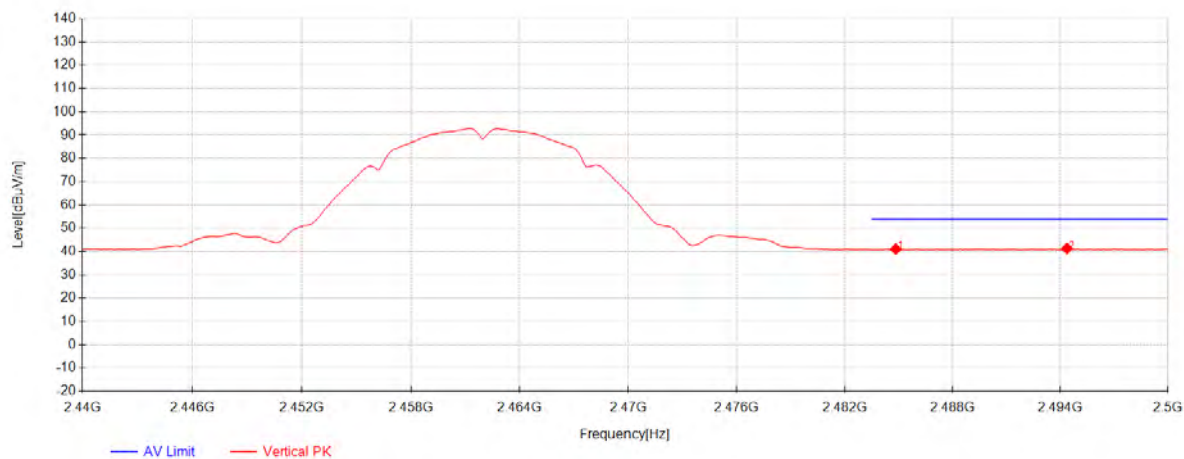
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2484.22         | 37.27          | 27.37     | -23.27      | 41.37          | 54.00          | 12.63       | Horizontal |
| 2               | 2489.56         | 37.18          | 27.38     | -23.27      | 41.29          | 54.00          | 12.71       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 139 of 180

802.11b ANT 2\_Channel 11



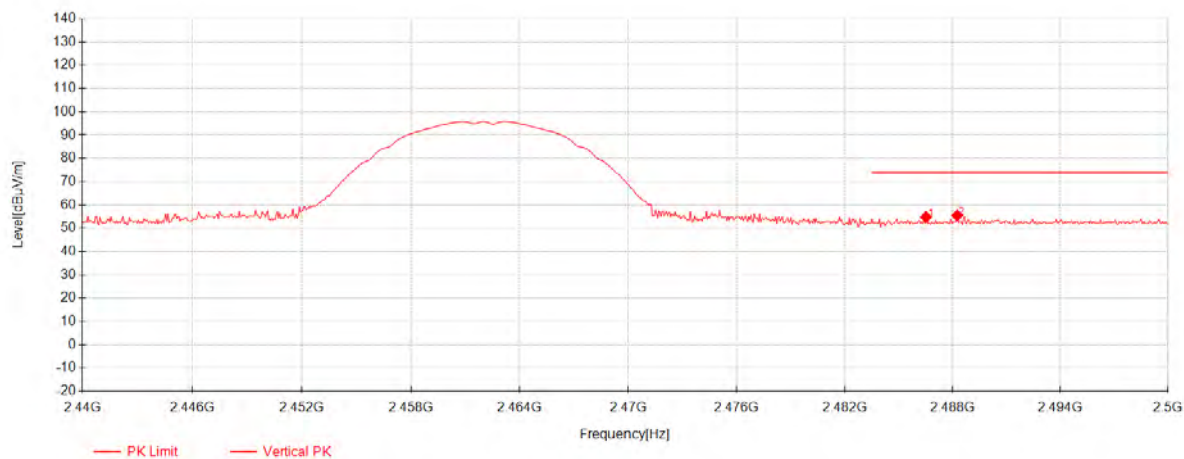
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2484.82         | 36.94          | 27.37     | -23.27      | 41.04          | 54.00          | 12.96       | Vertical |
| 2               | 2494.36         | 37.22          | 27.39     | -23.26      | 41.34          | 54.00          | 12.66       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 140 of 180

802.11b ANT 2\_Channel 11



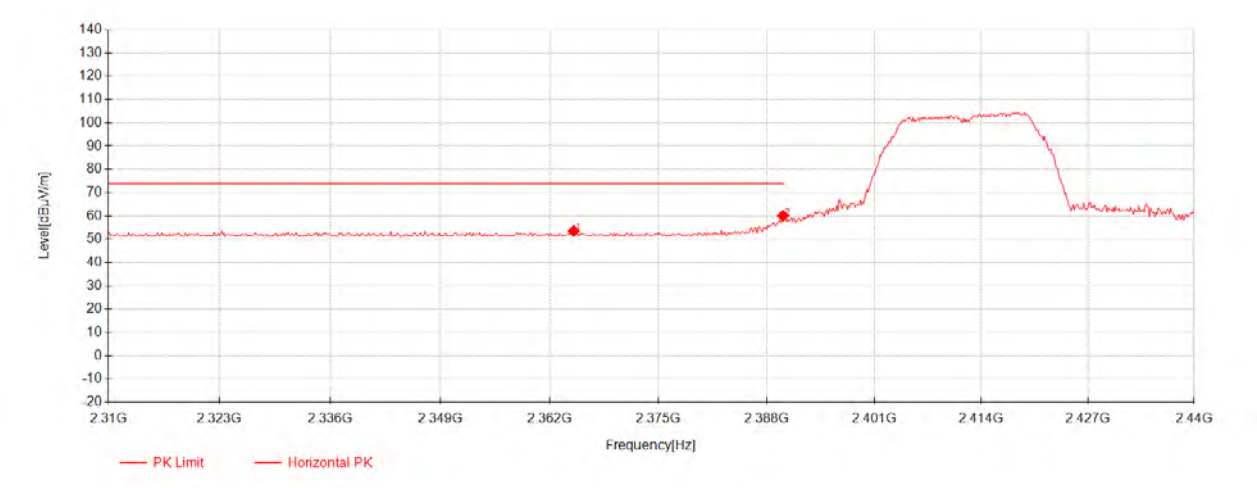
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2486.5          | 50.73          | 27.37     | -23.27      | 54.83          | 74.00          | 19.17       | Vertical |
| 2               | 2488.24         | 51.39          | 27.37     | -23.27      | 55.50          | 74.00          | 18.50       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 141 of 180

802.11g ANT 2\_Channel 01



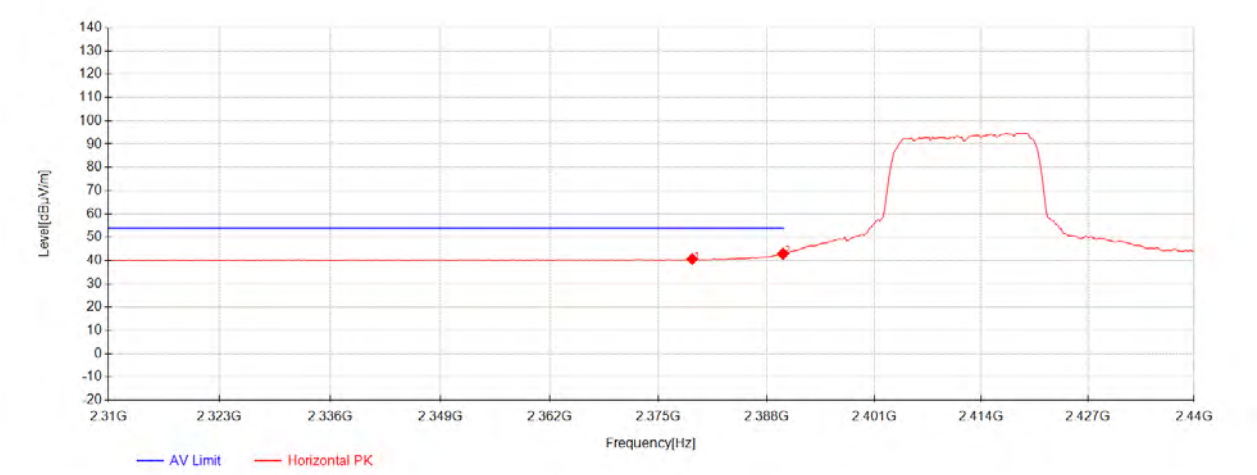
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2364.86         | 49.73          | 27.10     | -23.30      | 53.54          | 74.00          | 20.46       | Horizontal |
| 2               | 2389.95         | 56.19          | 27.16     | -23.31      | 60.03          | 74.00          | 13.97       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 142 of 180

802.11g ANT 2\_Channel 01



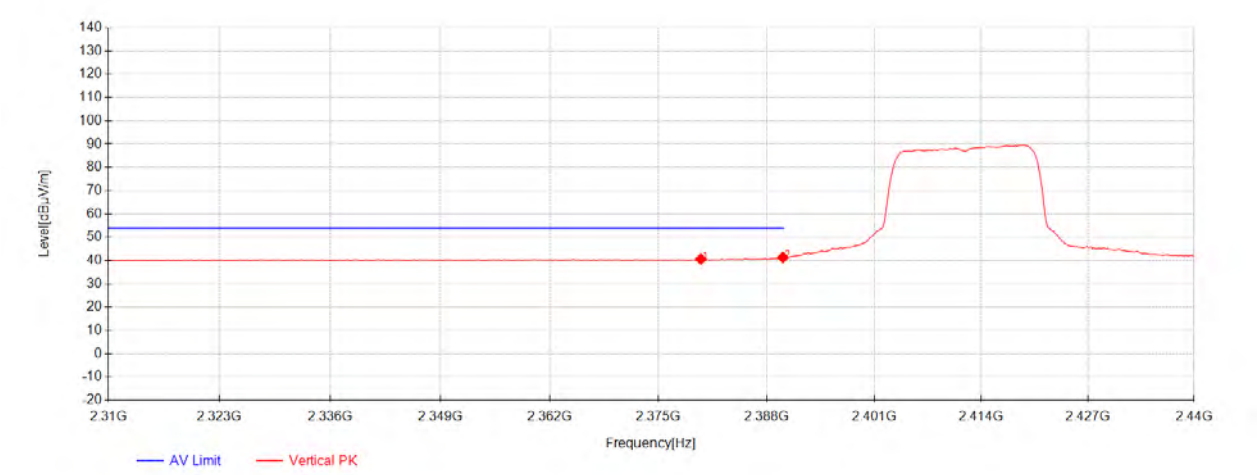
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2379.03         | 36.78          | 27.13     | -23.31      | 40.61          | 54.00          | 13.39       | Horizontal |
| 2               | 2389.95         | 39.07          | 27.16     | -23.31      | 42.91          | 54.00          | 11.09       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 143 of 180

802.11g ANT 2\_Channel 01



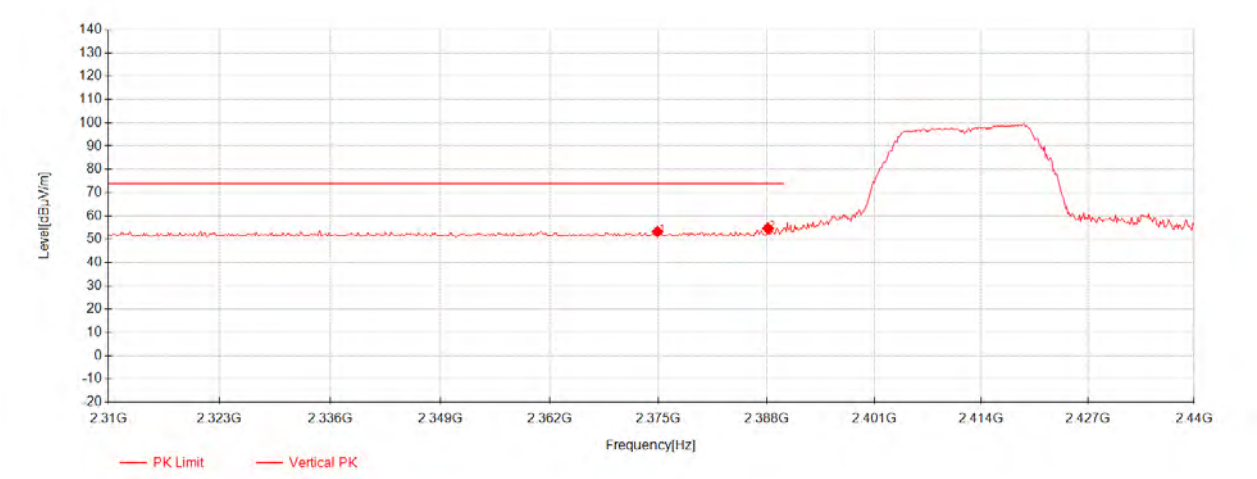
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2380.07         | 36.79          | 27.14     | -23.31      | 40.62          | 54.00          | 13.38       | Vertical |
| 2               | 2389.95         | 37.53          | 27.16     | -23.31      | 41.37          | 54.00          | 12.63       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 144 of 180

802.11g ANT 2\_Channel 01



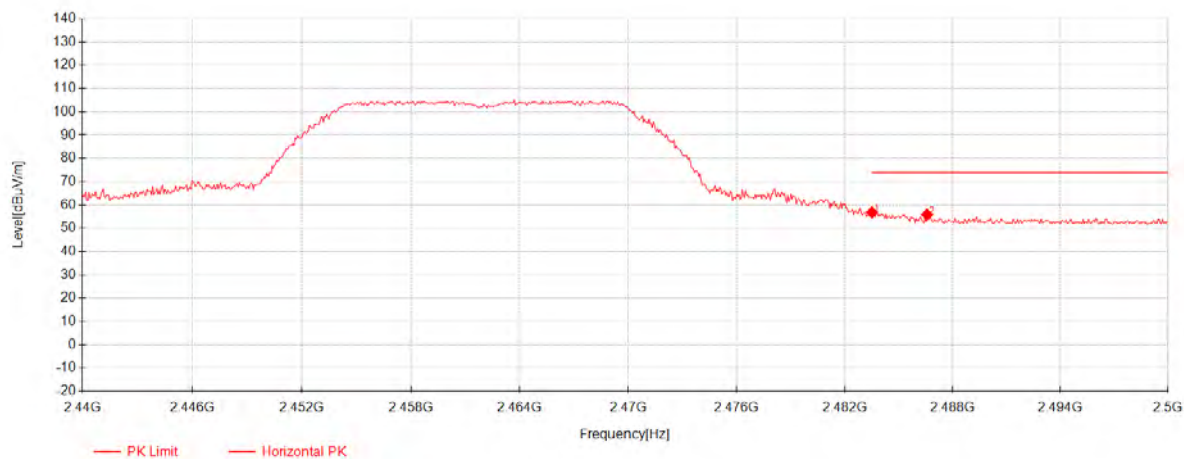
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2374.87         | 49.40          | 27.12     | -23.30      | 53.22          | 74.00          | 20.78       | Vertical |
| 2               | 2388.13         | 50.86          | 27.15     | -23.31      | 54.70          | 74.00          | 19.30       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 145 of 180

802.11g ANT 2\_Channel 11



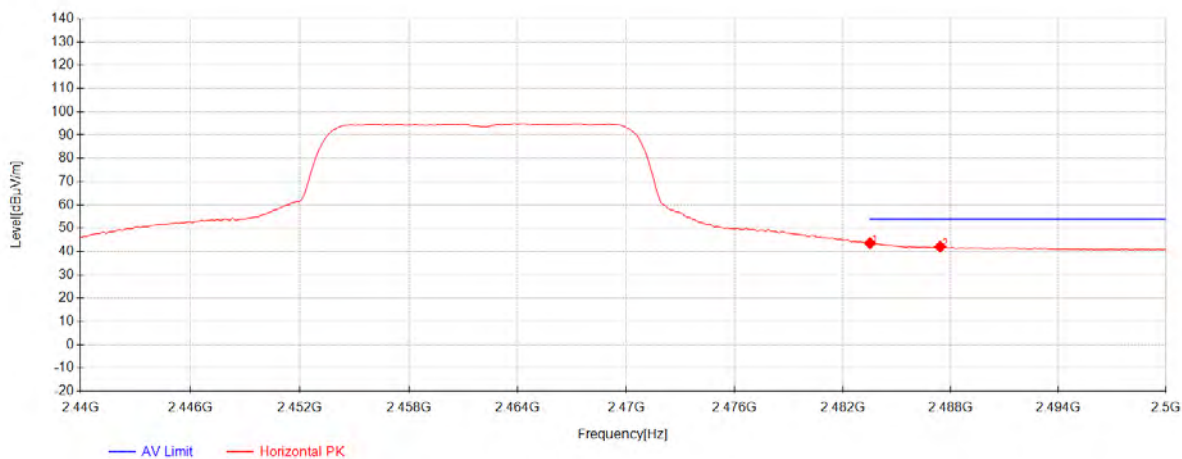
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2483.5          | 52.72          | 27.36     | -23.27      | 56.81          | 74.00          | 17.19       | Horizontal |
| 2               | 2486.56         | 51.78          | 27.37     | -23.27      | 55.88          | 74.00          | 18.12       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 146 of 180

802.11g ANT 2\_Channel 11



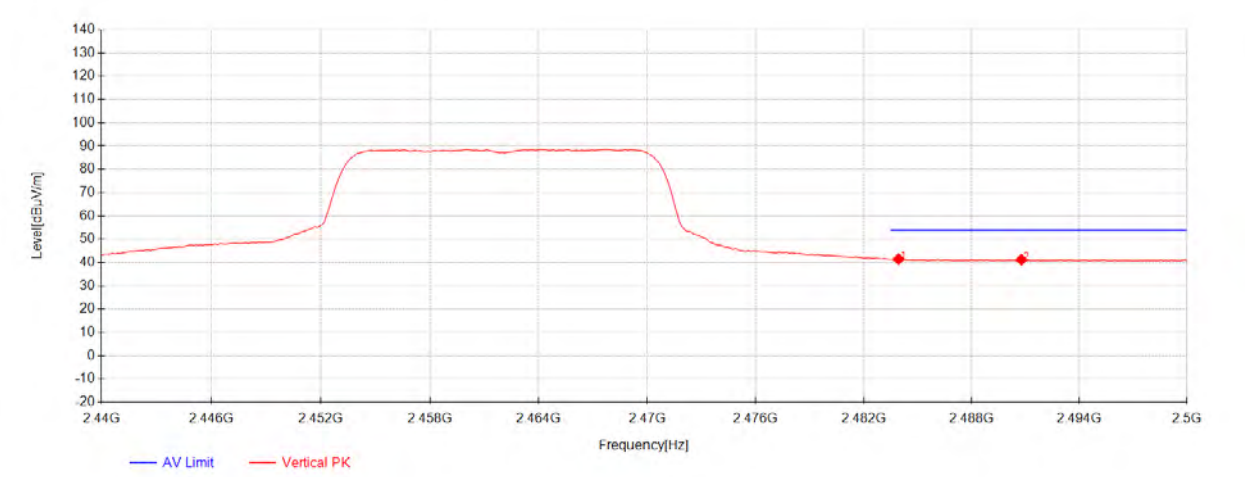
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2483.5          | 39.53          | 27.36     | -23.27      | 43.62          | 54.00          | 10.38       | Horizontal |
| 2               | 2487.4          | 38.01          | 27.37     | -23.27      | 42.11          | 54.00          | 11.89       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 147 of 180

802.11g ANT 2\_Channel 11



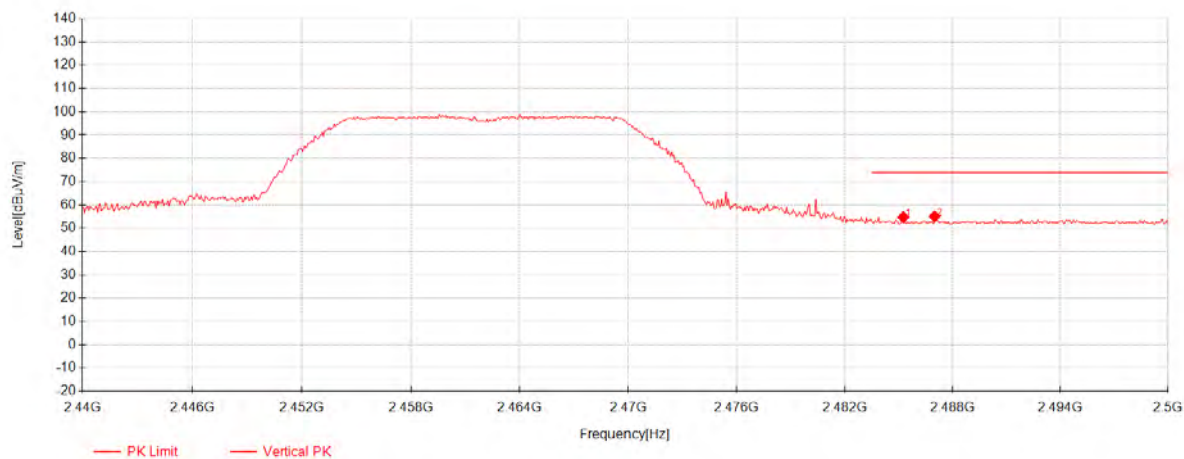
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2483.92         | 37.40          | 27.36     | -23.27      | 41.49          | 54.00          | 12.51       | Vertical |
| 2               | 2490.76         | 37.12          | 27.38     | -23.27      | 41.23          | 54.00          | 12.77       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 148 of 180

802.11g ANT 2\_Channel 11



| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2485.24         | 50.68          | 27.37     | -23.27      | 54.78          | 74.00          | 19.22       | Vertical |
| 2               | 2486.98         | 51.01          | 27.37     | -23.27      | 55.11          | 74.00          | 18.89       | Vertical |



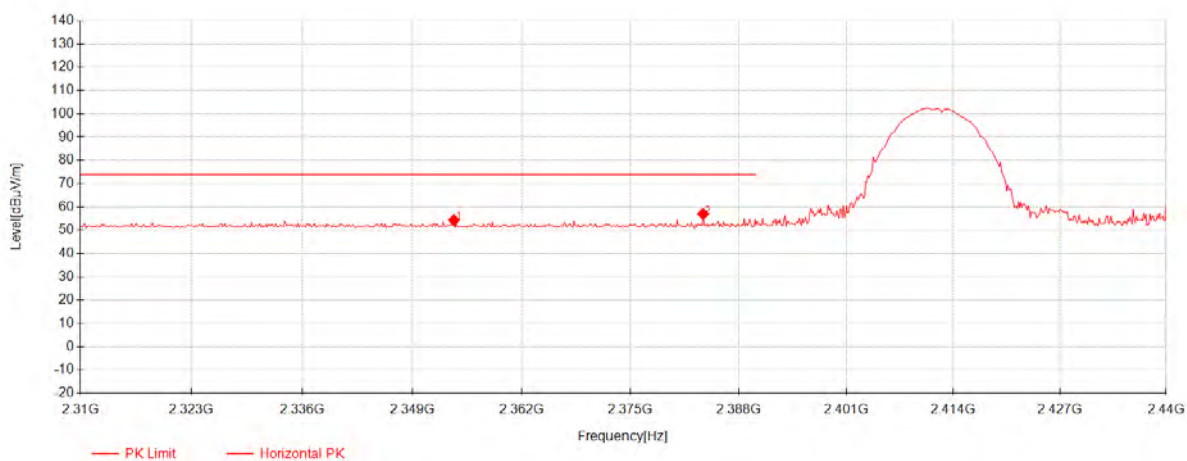
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 149 of 180

### 802.11b ANT 3\_Channel 01



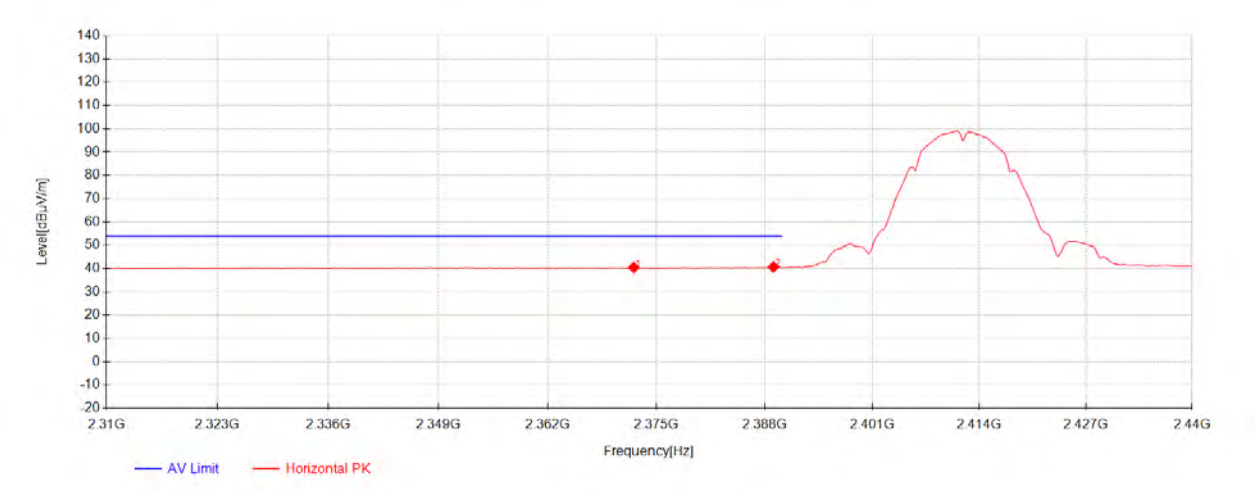
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2353.94         | 50.60          | 27.08     | -23.29      | 54.39          | 74.00          | 19.61       | Horizontal |
| 2               | 2383.71         | 53.16          | 27.14     | -23.31      | 57.00          | 74.00          | 17.00       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 150 of 180

802.11b ANT 3\_Channel 01



| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2372.27         | 36.64          | 27.12     | -23.30      | 40.46          | 54.00          | 13.54       | Horizontal |
| 2               | 2389.04         | 36.83          | 27.16     | -23.31      | 40.67          | 54.00          | 13.33       | Horizontal |



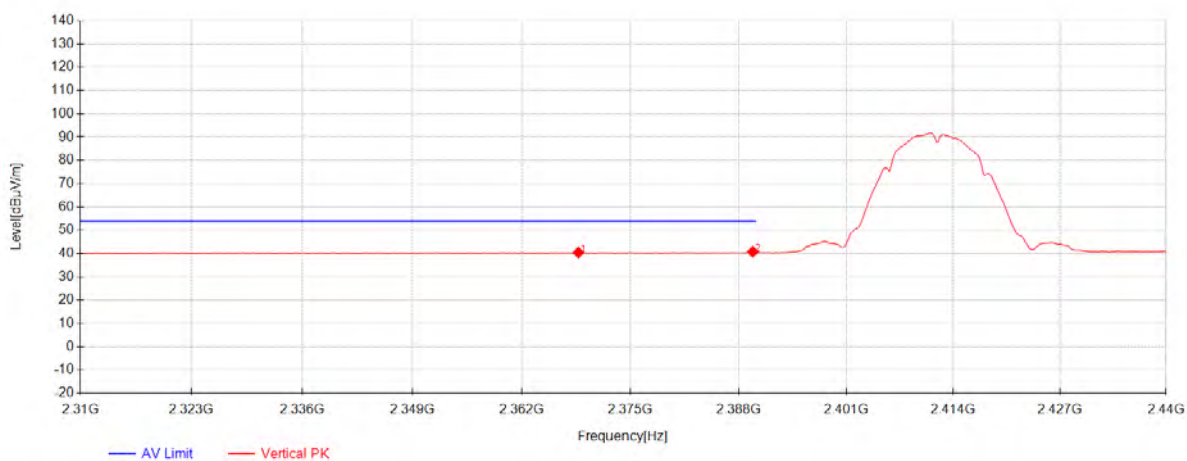
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 151 of 180

### 802.11b ANT 3\_Channel 01



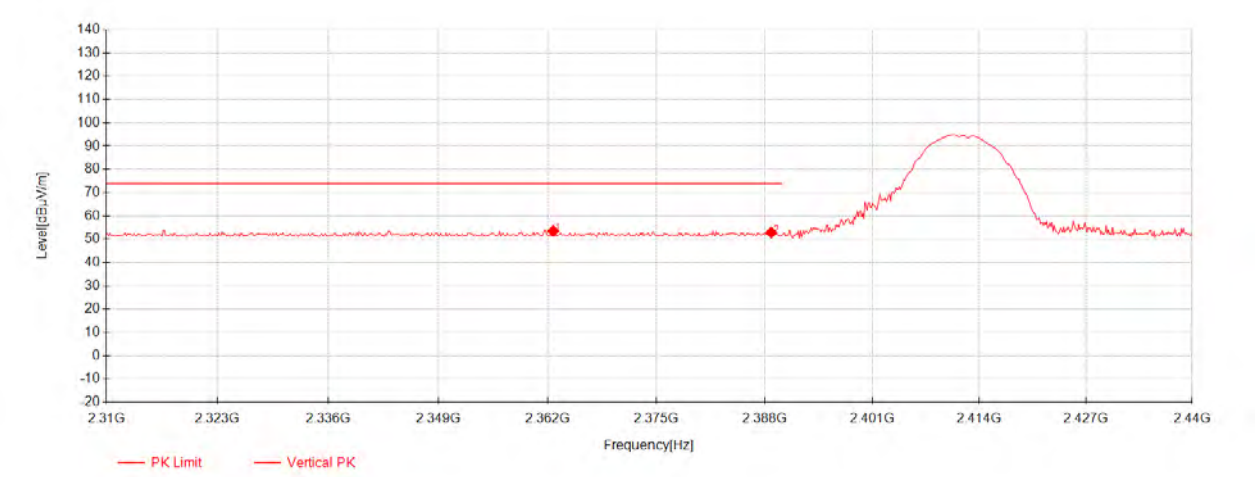
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2368.76         | 36.61          | 27.11     | -23.30      | 40.42          | 54.00          | 13.58       | Vertical |
| 2               | 2389.69         | 36.89          | 27.16     | -23.31      | 40.73          | 54.00          | 13.27       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 152 of 180

802.11b ANT 3\_Channel 01



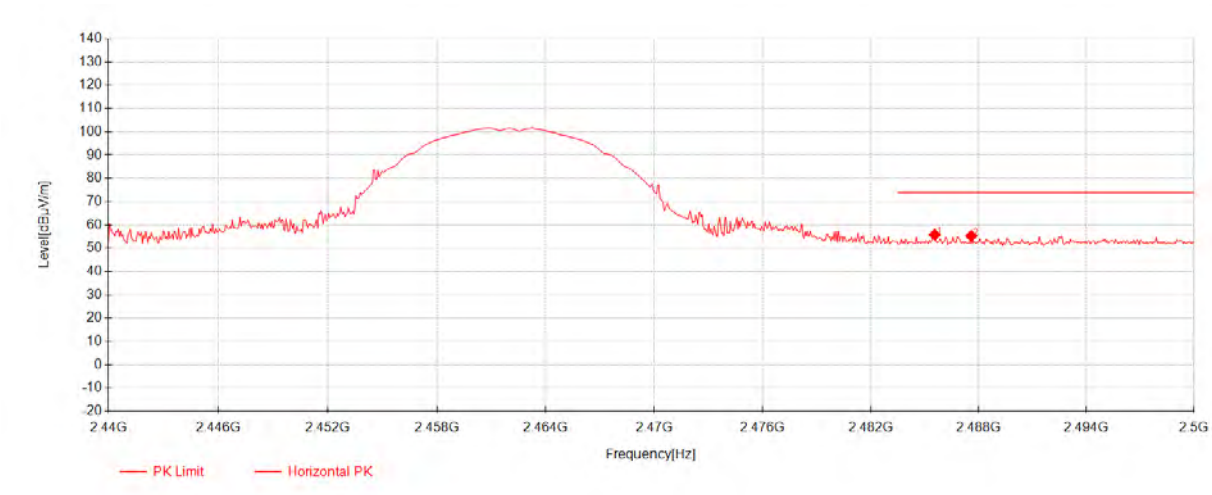
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2362.65         | 49.73          | 27.10     | -23.29      | 53.53          | 74.00          | 20.47       | Vertical |
| 2               | 2388.78         | 49.06          | 27.16     | -23.31      | 52.90          | 74.00          | 21.10       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 153 of 180

802.11b ANT 3\_Channel 11



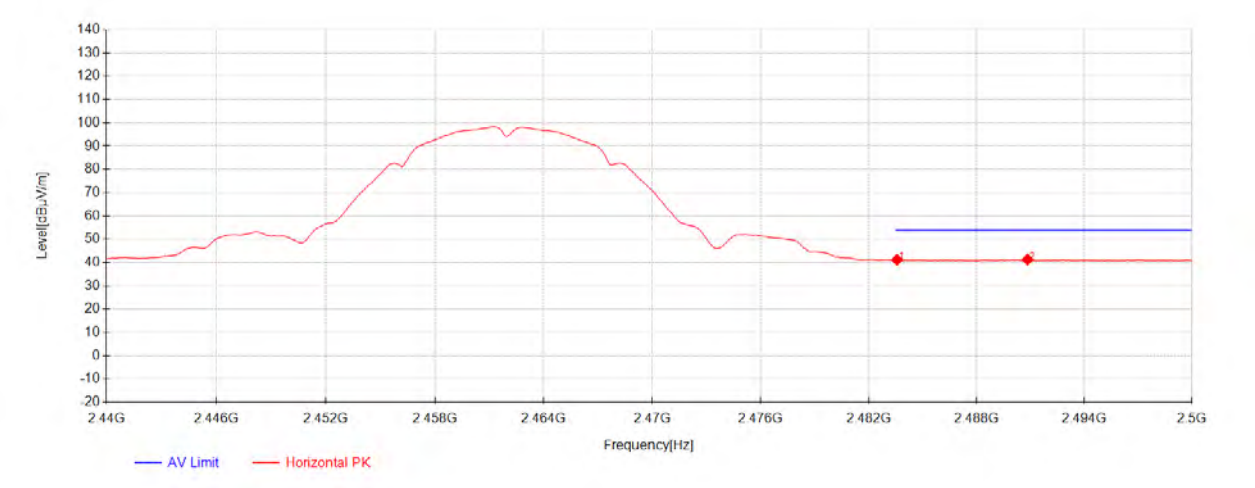
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2485.54         | 51.69          | 27.37     | -23.27      | 55.79          | 74.00          | 18.21       | Horizontal |
| 2               | 2487.58         | 51.18          | 27.37     | -23.27      | 55.29          | 74.00          | 18.71       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 154 of 180

802.11b ANT 3\_Channel 11



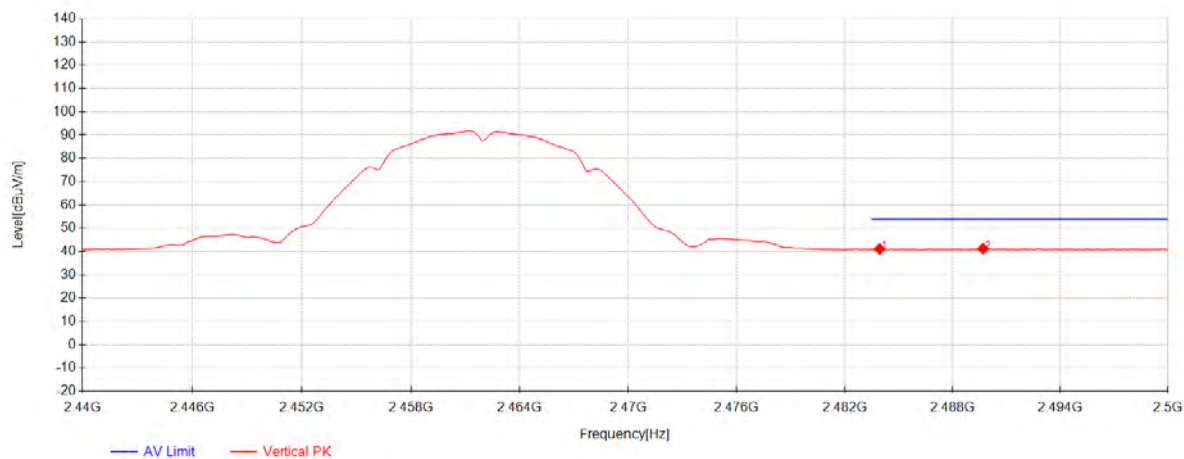
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2483.56         | 37.12          | 27.36     | -23.27      | 41.21          | 54.00          | 12.79       | Horizontal |
| 2               | 2490.82         | 37.20          | 27.38     | -23.27      | 41.31          | 54.00          | 12.69       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 155 of 180

802.11b ANT 3\_Channel 11



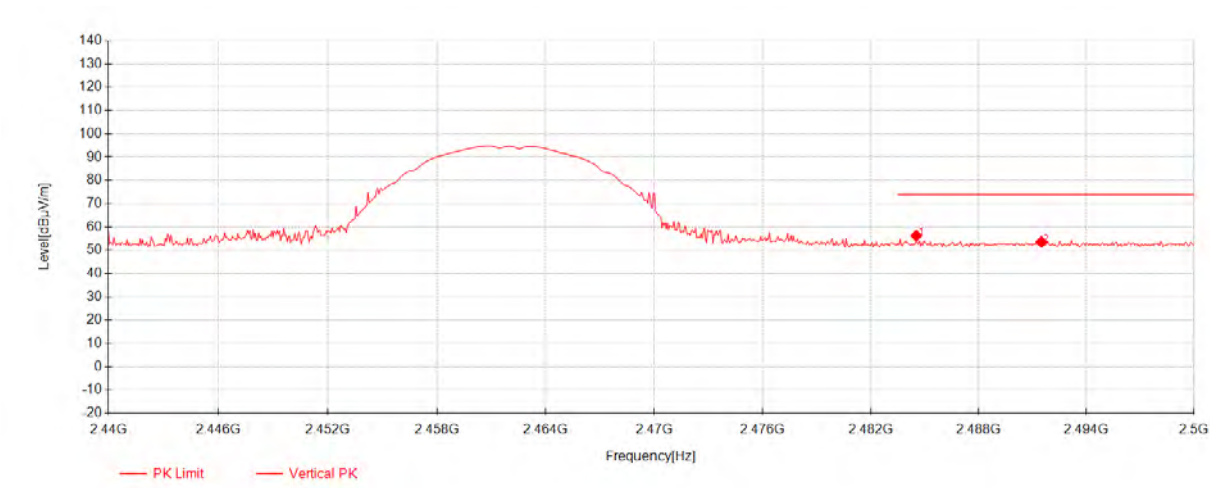
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2483.92         | 37.02          | 27.36     | -23.27      | 41.11          | 54.00          | 12.89       | Vertical |
| 2               | 2489.68         | 37.15          | 27.38     | -23.27      | 41.26          | 54.00          | 12.74       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 156 of 180

802.11b ANT 3\_Channel 11



| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2484.52         | 52.17          | 27.37     | -23.27      | 56.27          | 74.00          | 17.73       | Vertical |
| 2               | 2491.48         | 49.46          | 27.38     | -23.27      | 53.58          | 74.00          | 20.42       | Vertical |



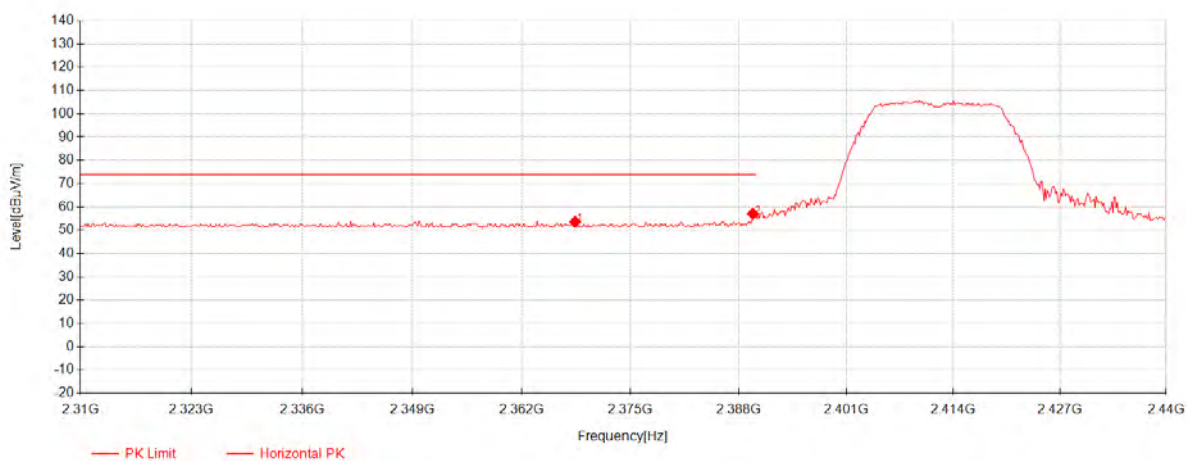
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 157 of 180

### 802.11g ANT 3\_Channel 01



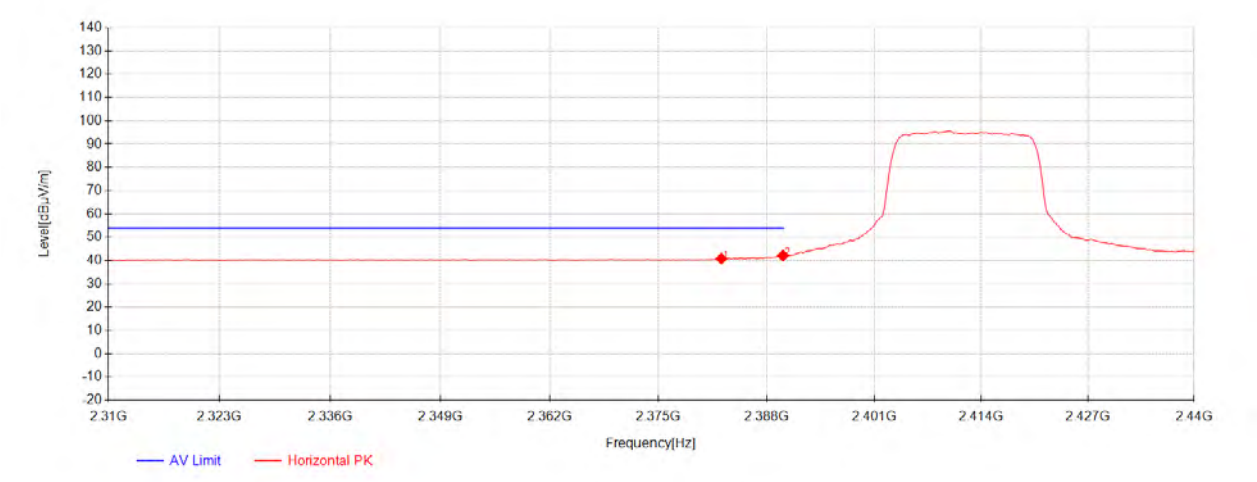
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2368.37         | 49.87          | 27.11     | -23.30      | 53.68          | 74.00          | 20.32       | Horizontal |
| 2               | 2389.69         | 53.25          | 27.16     | -23.31      | 57.09          | 74.00          | 16.91       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 158 of 180

802.11g ANT 3\_Channel 01



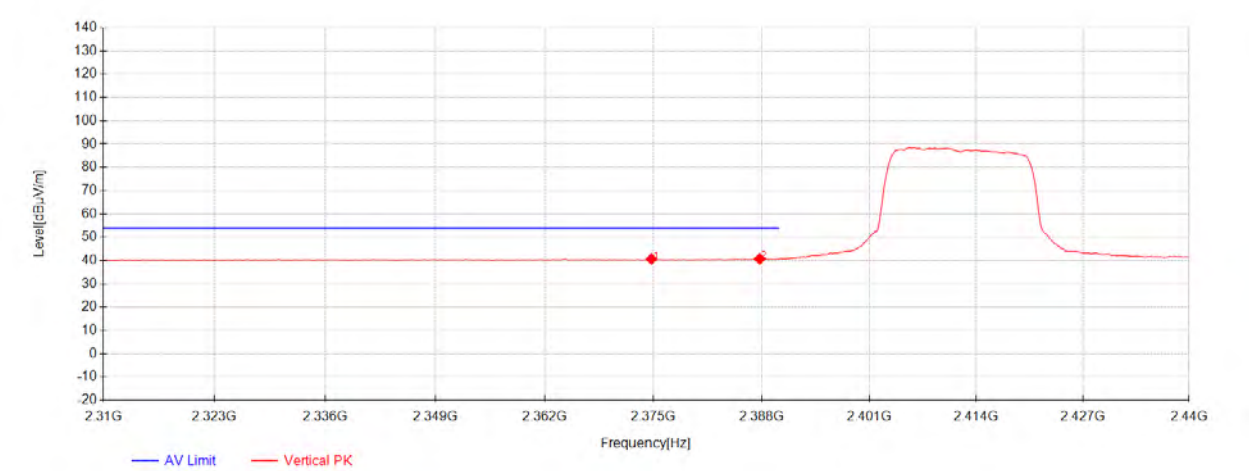
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2382.54         | 36.95          | 27.14     | -23.31      | 40.78          | 54.00          | 13.22       | Horizontal |
| 2               | 2389.95         | 38.31          | 27.16     | -23.31      | 42.15          | 54.00          | 11.85       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 159 of 180

802.11g ANT 3\_Channel 01



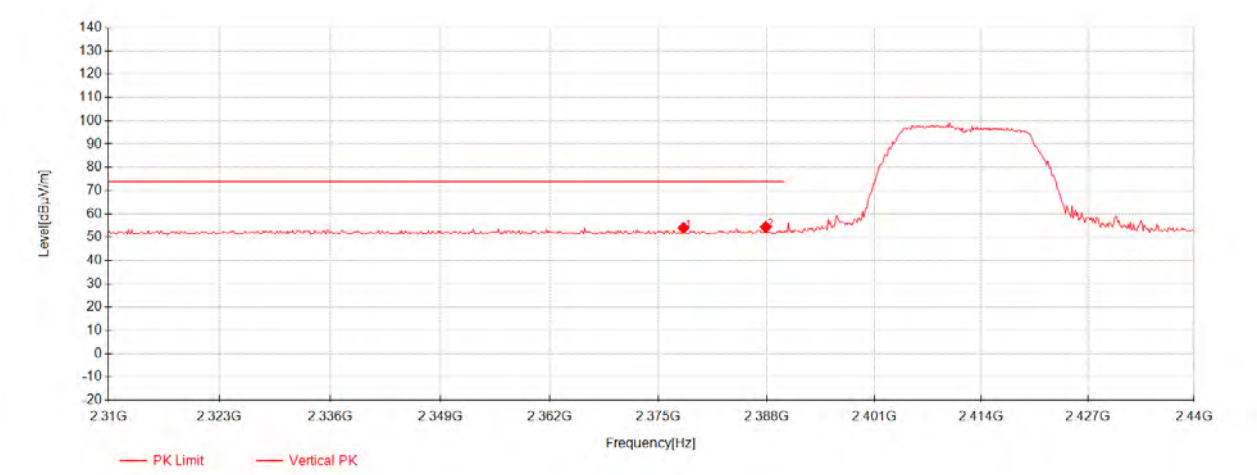
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2374.74         | 36.83          | 27.12     | -23.30      | 40.65          | 54.00          | 13.35       | Vertical |
| 2               | 2387.74         | 36.87          | 27.15     | -23.31      | 40.71          | 54.00          | 13.29       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 160 of 180

802.11g ANT 3\_Channel 01



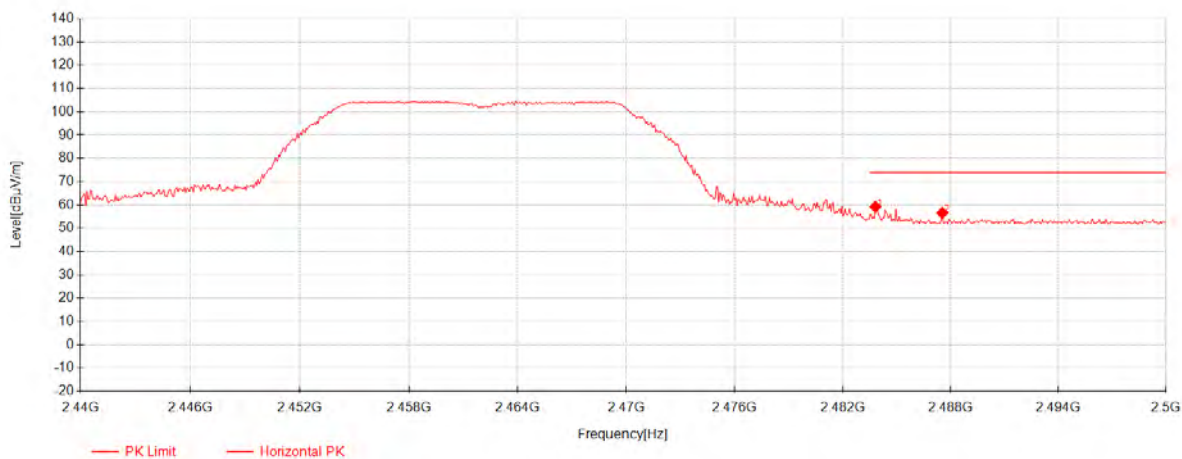
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2377.99         | 50.23          | 27.13     | -23.30      | 54.06          | 74.00          | 19.94       | Vertical |
| 2               | 2387.87         | 50.56          | 27.15     | -23.31      | 54.40          | 74.00          | 19.60       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 161 of 180

802.11g ANT 3\_Channel 11



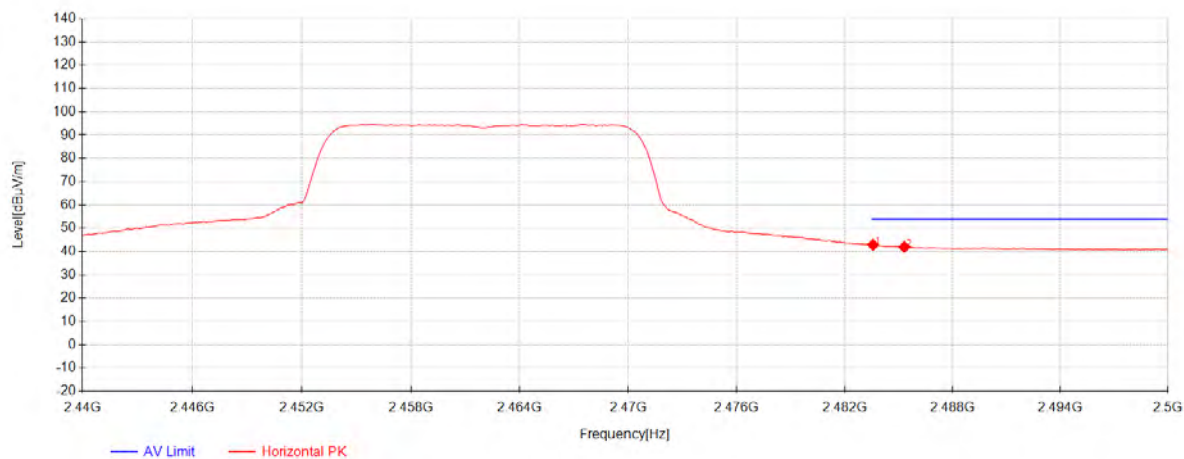
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2483.8          | 55.09          | 27.36     | -23.27      | 59.18          | 74.00          | 14.82       | Horizontal |
| 2               | 2487.52         | 52.44          | 27.37     | -23.27      | 56.55          | 74.00          | 17.45       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 162 of 180

802.11g ANT 3\_Channel 11



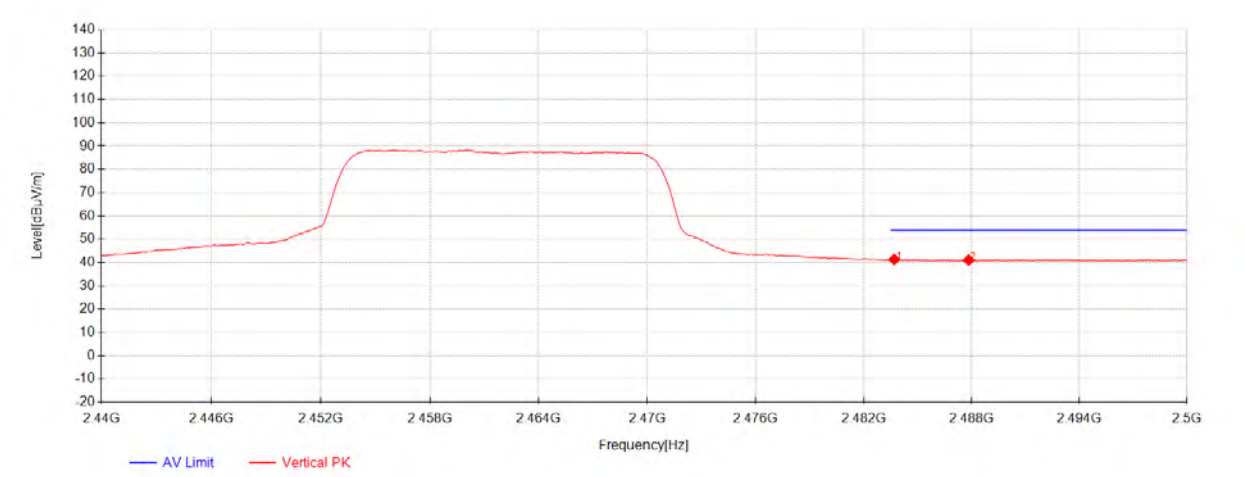
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2483.56         | 38.82          | 27.36     | -23.27      | 42.91          | 54.00          | 11.09       | Horizontal |
| 2               | 2485.3          | 37.90          | 27.37     | -23.27      | 42.00          | 54.00          | 12.00       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 163 of 180

802.11g ANT 3\_Channel 11



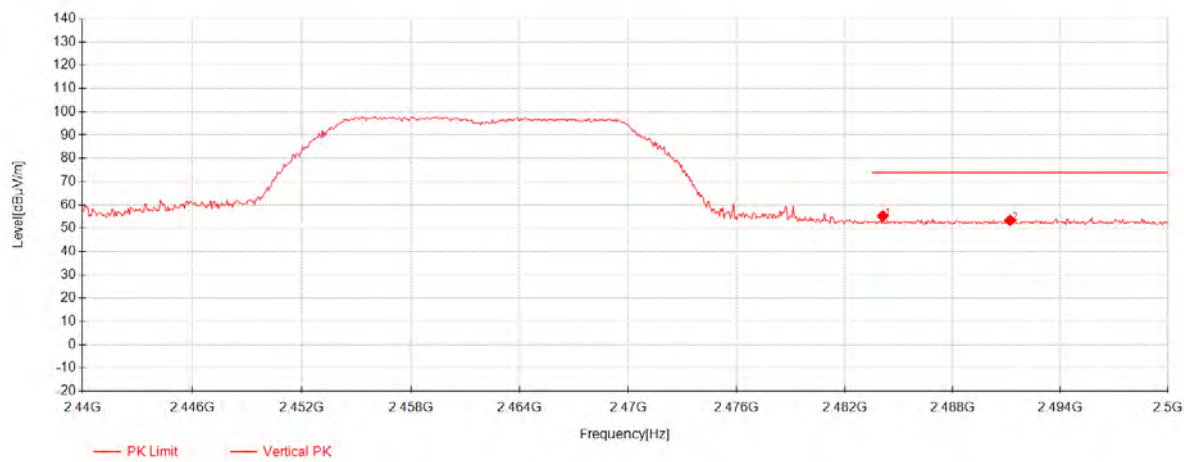
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2483.68         | 37.24          | 27.36     | -23.27      | 41.33          | 54.00          | 12.67       | Vertical |
| 2               | 2487.82         | 36.95          | 27.37     | -23.27      | 41.06          | 54.00          | 12.94       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 164 of 180

802.11g ANT 3\_Channel 11



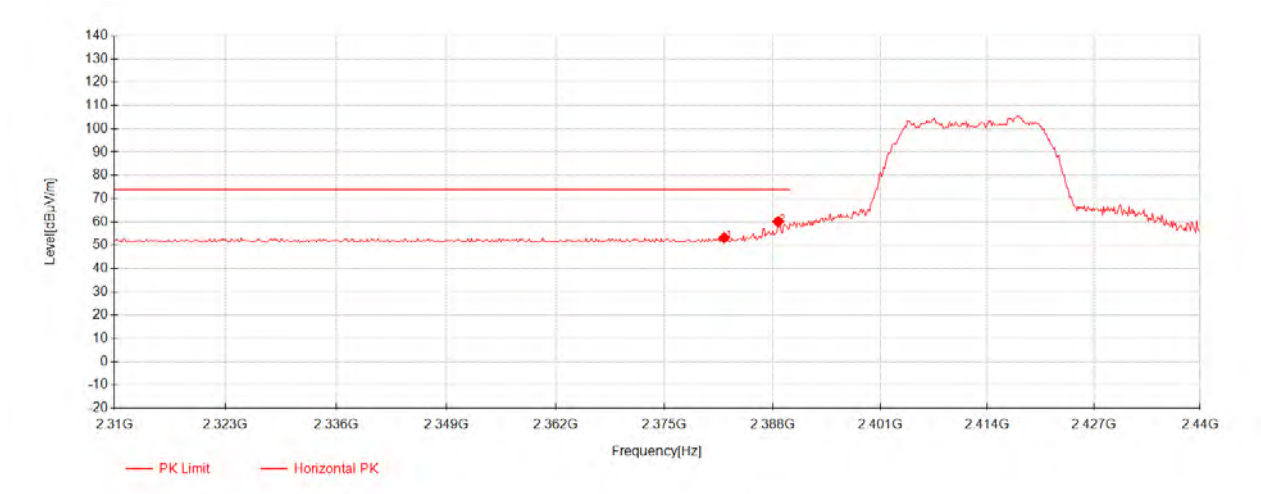
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2484.1          | 51.16          | 27.37     | -23.27      | 55.26          | 74.00          | 18.74       | Vertical |
| 2               | 2491.18         | 49.26          | 27.38     | -23.27      | 53.38          | 74.00          | 20.62       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 165 of 180

802.11n20 MIMO\_Channel 01



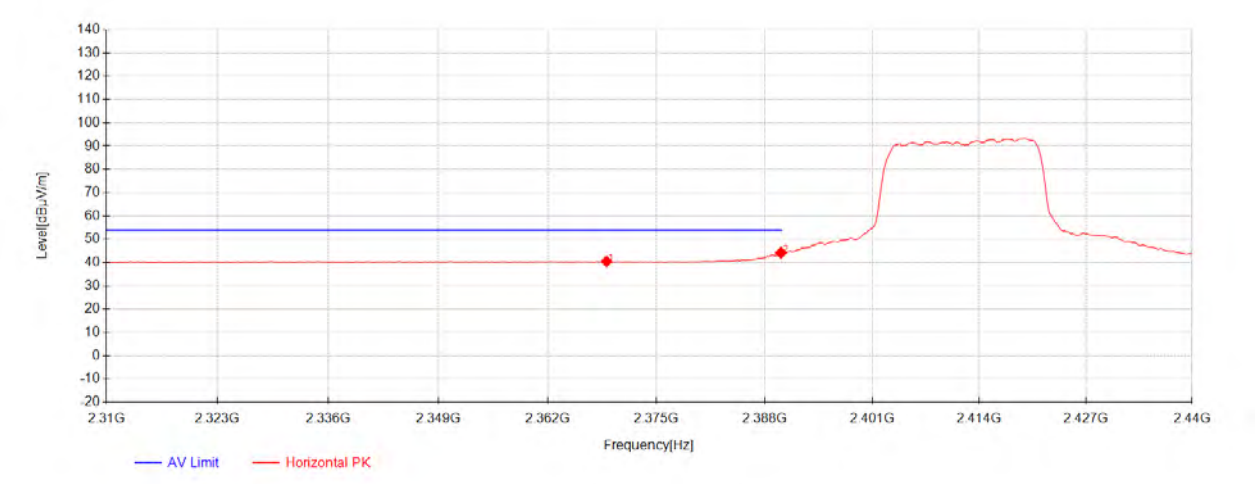
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2382.15         | 49.37          | 27.14     | -23.31      | 53.20          | 74.00          | 20.80       | Horizontal |
| 2               | 2388.65         | 56.28          | 27.16     | -23.31      | 60.12          | 74.00          | 13.88       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 166 of 180

802.11n20 MIMO\_Channel 01



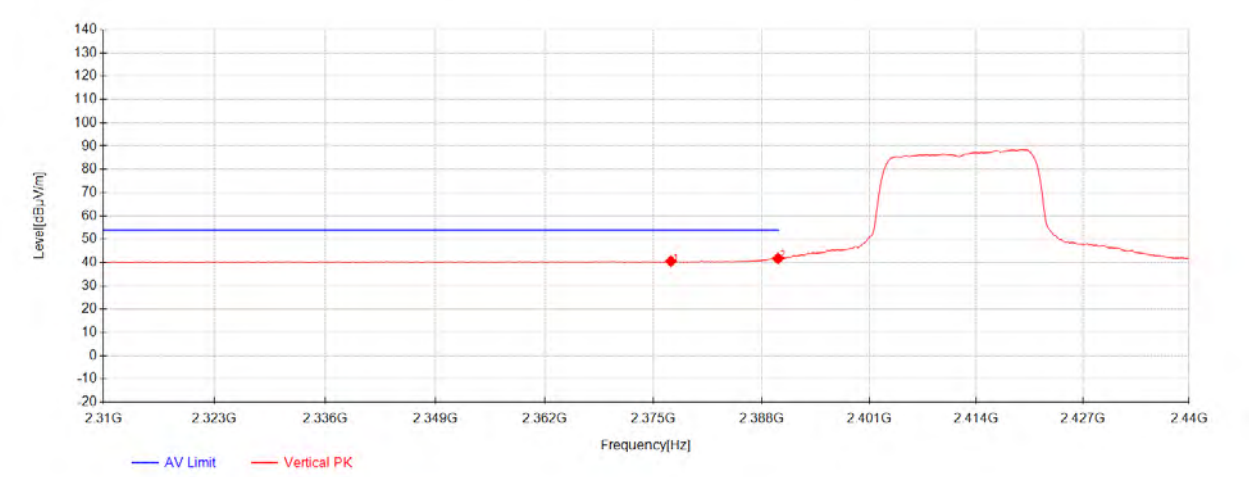
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2369.02         | 36.66          | 27.11     | -23.30      | 40.47          | 54.00          | 13.53       | Horizontal |
| 2               | 2389.95         | 40.36          | 27.16     | -23.31      | 44.20          | 54.00          | 9.80        | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 167 of 180

802.11n20 MIMO\_Channel 01



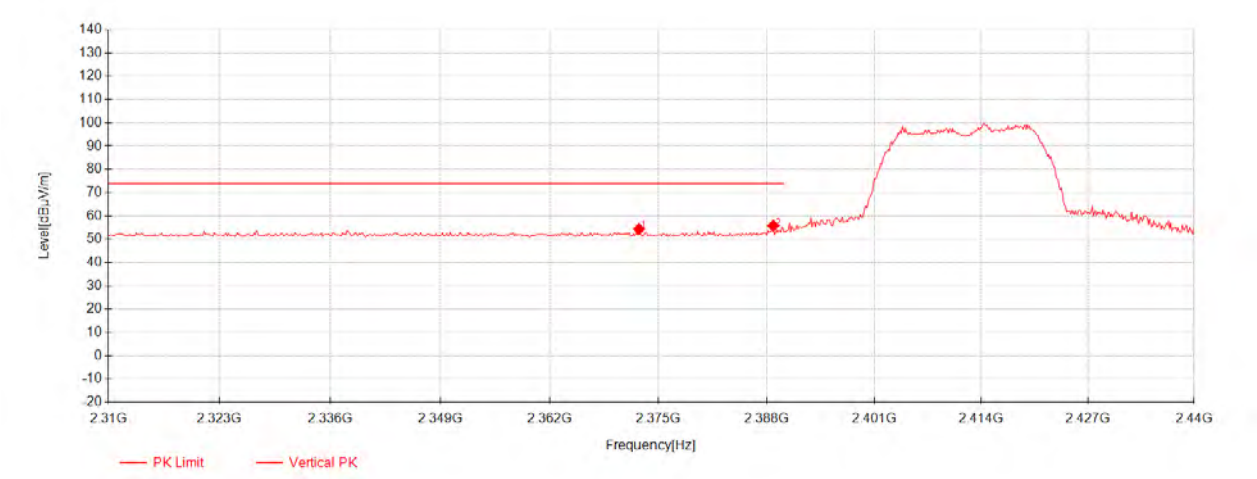
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2377.08         | 36.73          | 27.13     | -23.30      | 40.56          | 54.00          | 13.44       | Vertical |
| 2               | 2389.95         | 37.91          | 27.16     | -23.31      | 41.75          | 54.00          | 12.25       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 168 of 180

802.11n20 MIMO\_Channel 01



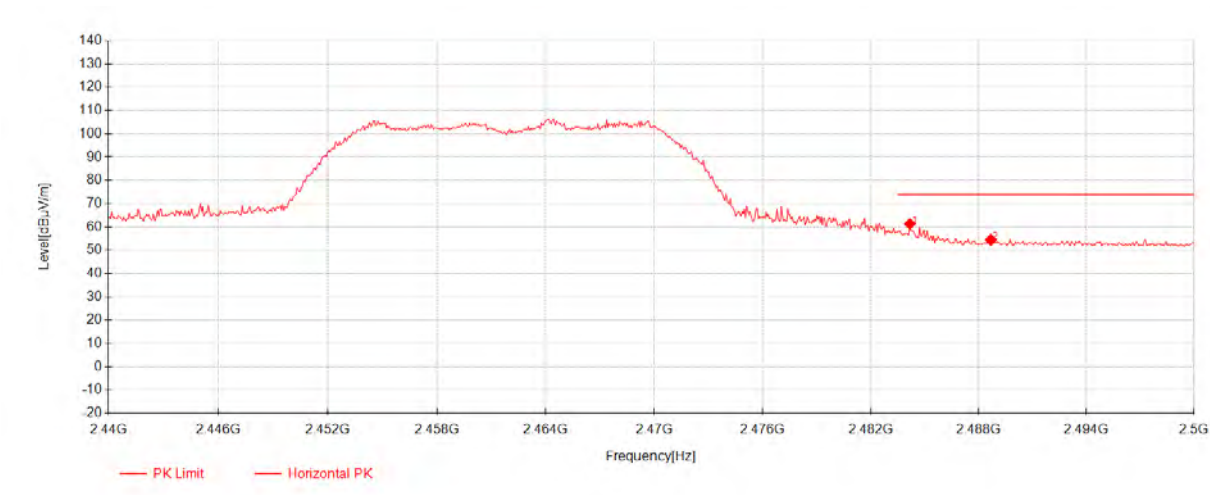
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2372.66         | 50.57          | 27.12     | -23.30      | 54.39          | 74.00          | 19.61       | Vertical |
| 2               | 2388.78         | 51.97          | 27.16     | -23.31      | 55.81          | 74.00          | 18.19       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 169 of 180

802.11n20 MIMO\_Channel 11



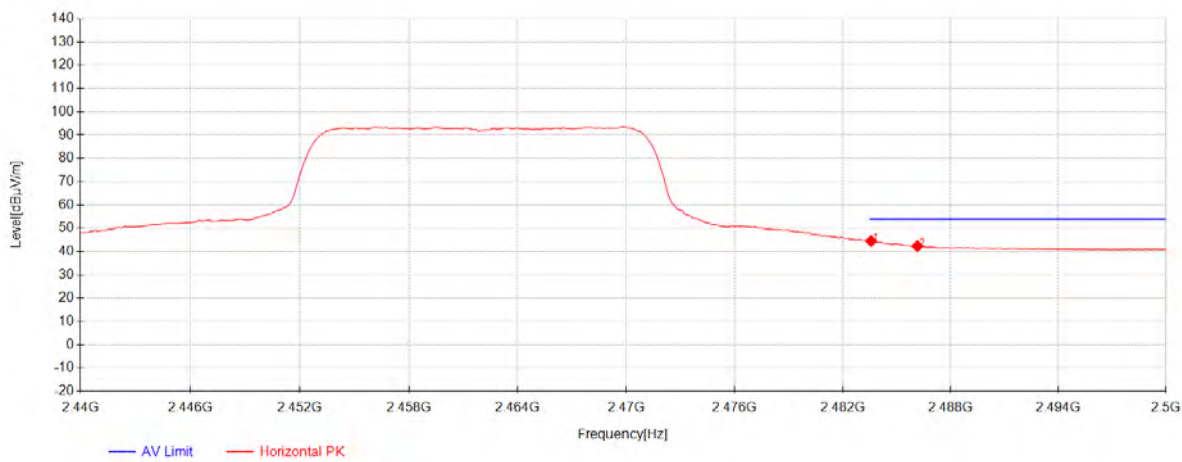
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2484.16         | 57.26          | 27.37     | -23.27      | 61.36          | 74.00          | 12.64       | Horizontal |
| 2               | 2488.66         | 50.37          | 27.38     | -23.27      | 54.48          | 74.00          | 19.52       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 170 of 180

802.11n20 MIMO\_Channel 11



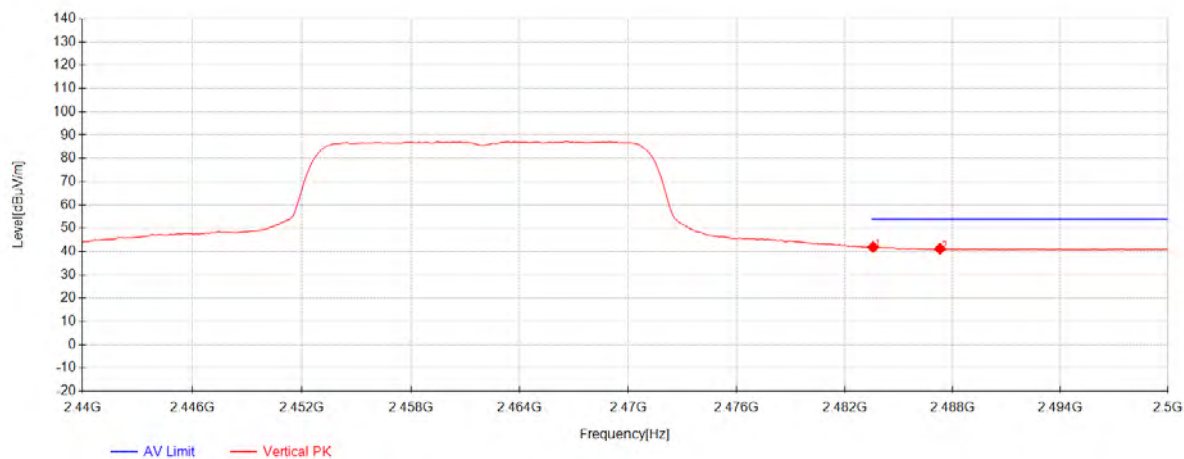
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2483.56         | 40.43          | 27.36     | -23.27      | 44.52          | 54.00          | 9.48        | Horizontal |
| 2               | 2486.14         | 38.27          | 27.37     | -23.27      | 42.37          | 54.00          | 11.63       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 171 of 180

802.11n20 MIMO\_Channel 11



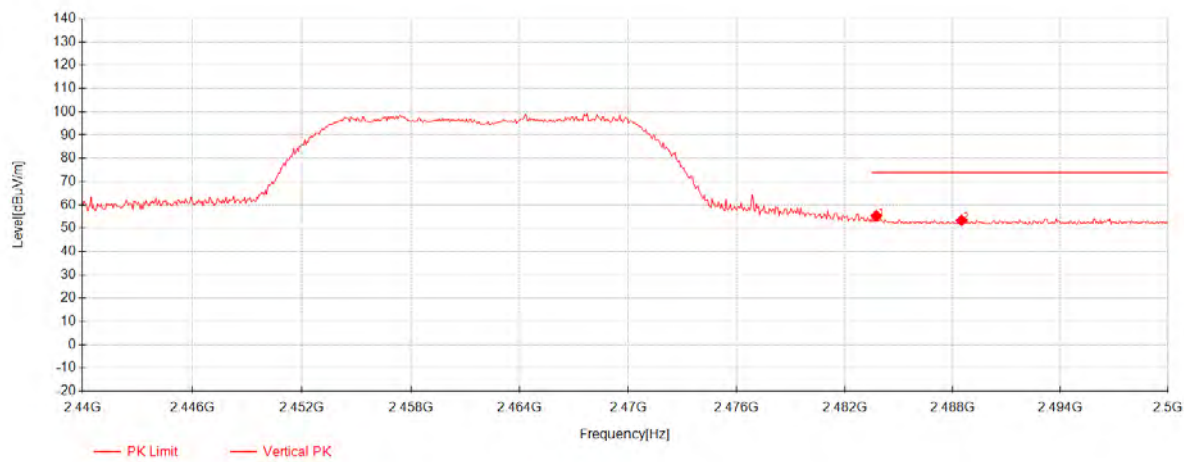
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2483.56         | 37.84          | 27.36     | -23.27      | 41.93          | 54.00          | 12.07       | Vertical |
| 2               | 2487.28         | 37.08          | 27.37     | -23.27      | 41.18          | 54.00          | 12.82       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 172 of 180

802.11n20 MIMO\_Channel 11



| Flnal Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2483.74         | 51.22          | 27.36     | -23.27      | 55.31          | 74.00          | 18.69       | Vertical |
| 2               | 2488.48         | 49.23          | 27.37     | -23.27      | 53.34          | 74.00          | 20.66       | Vertical |



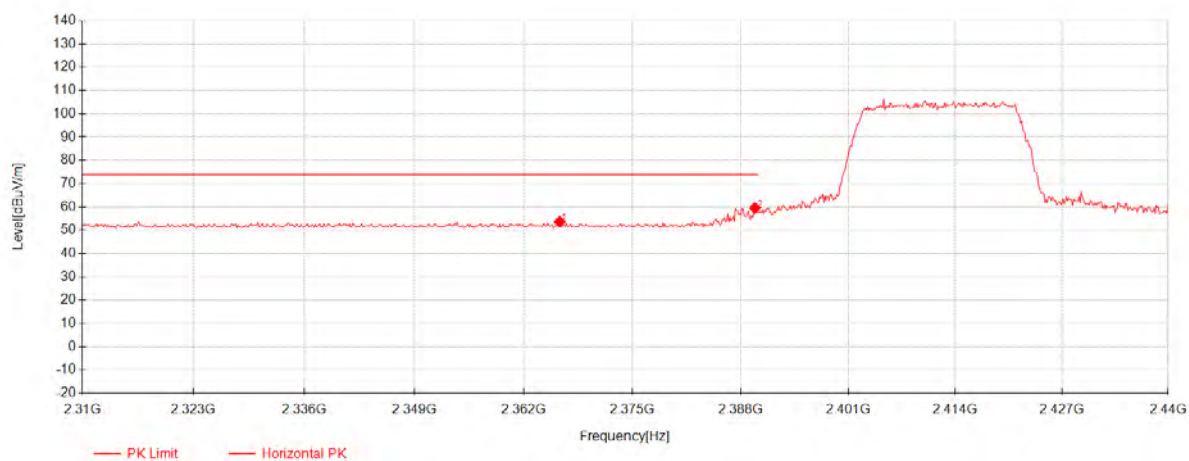
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 173 of 180

### 802.11ax20 MIMO\_Channel 01



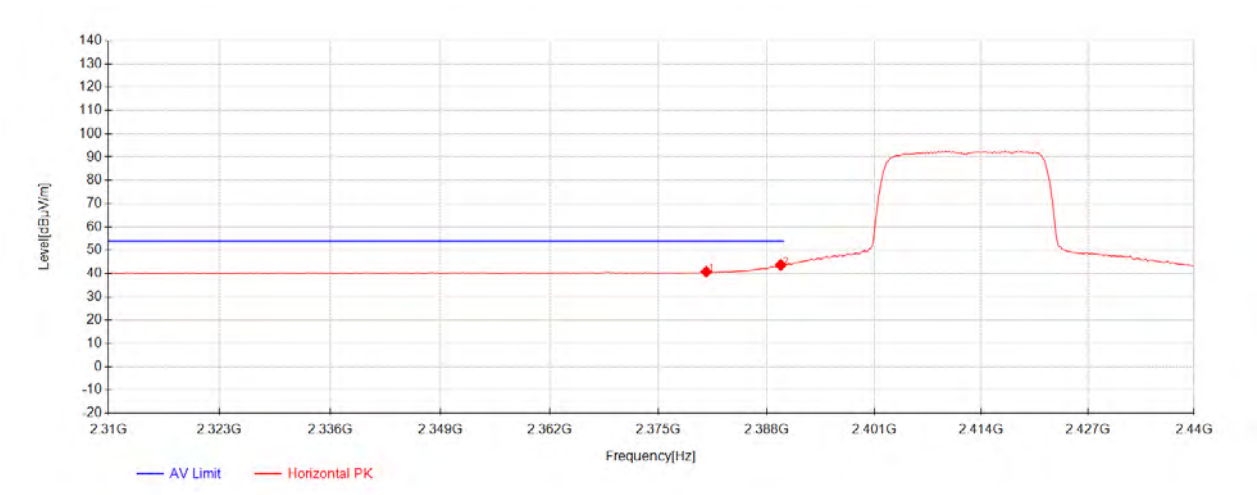
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2366.29         | 49.88          | 27.11     | -23.30      | 53.69          | 74.00          | 20.31       | Horizontal |
| 2               | 2389.69         | 55.65          | 27.16     | -23.31      | 59.49          | 74.00          | 14.51       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 174 of 180

802.11ax20 MIMO\_Channel 01



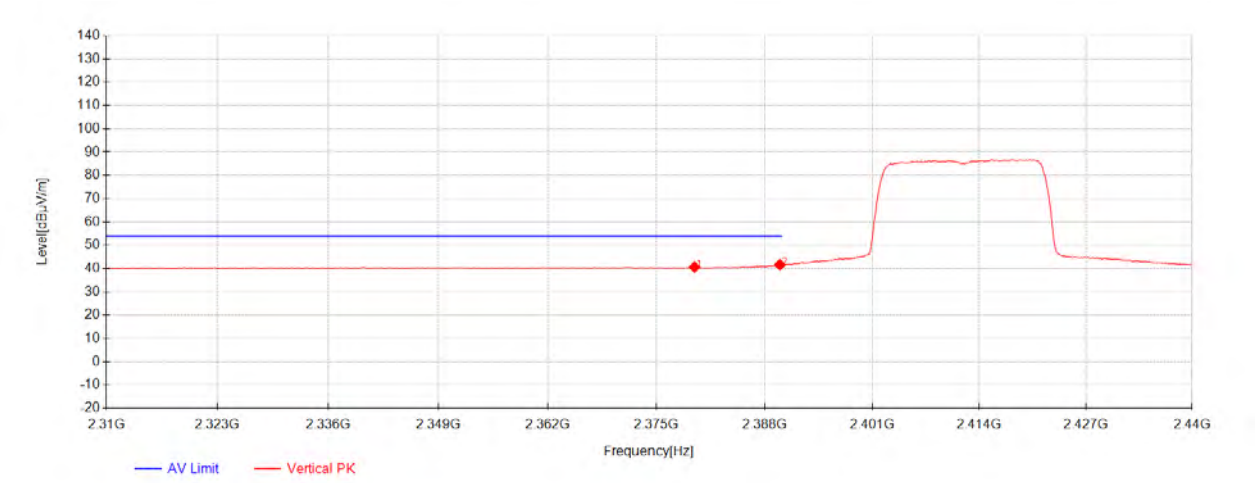
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2380.72         | 36.91          | 27.14     | -23.31      | 40.74          | 54.00          | 13.26       | Horizontal |
| 2               | 2389.69         | 39.87          | 27.16     | -23.31      | 43.71          | 54.00          | 10.29       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 175 of 180

802.11ax20 MIMO\_Channel 01



| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2379.55         | 36.80          | 27.14     | -23.31      | 40.63          | 54.00          | 13.37       | Vertical |
| 2               | 2389.82         | 37.80          | 27.16     | -23.31      | 41.64          | 54.00          | 12.36       | Vertical |



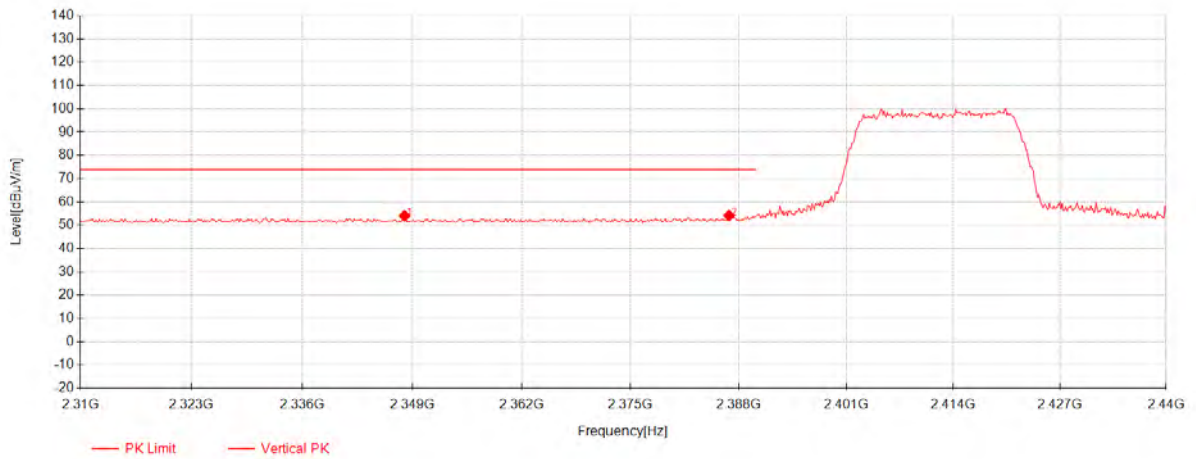
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 176 of 180

### 802.11ax20 MIMO\_Channel 01



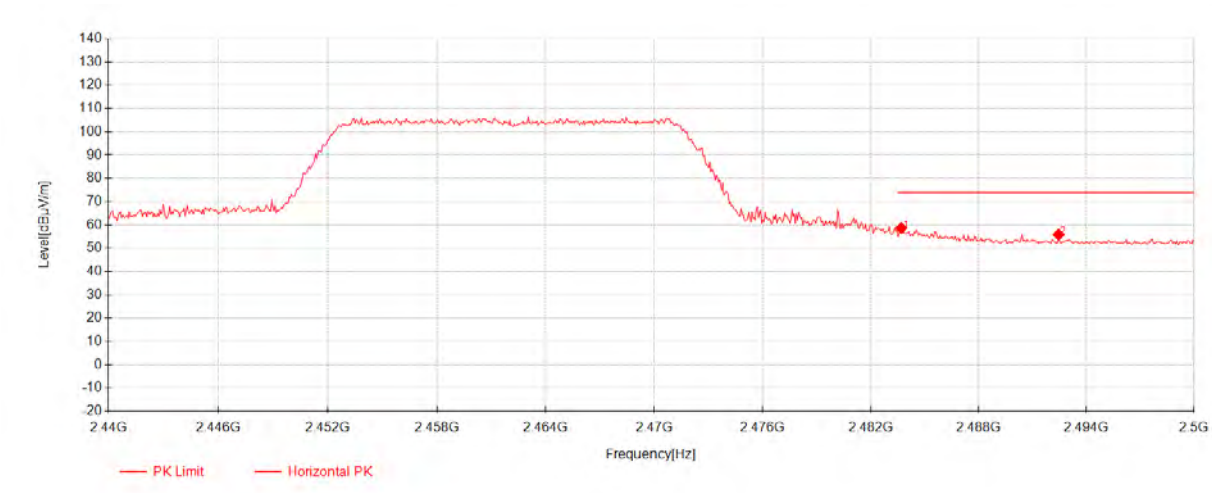
| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2348.09         | 50.32          | 27.07     | -23.28      | 54.10          | 74.00          | 19.90       | Vertical |
| 2               | 2386.83         | 50.37          | 27.15     | -23.31      | 54.21          | 74.00          | 19.79       | Vertical |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 177 of 180

802.11ax20 MIMO\_Channel 11



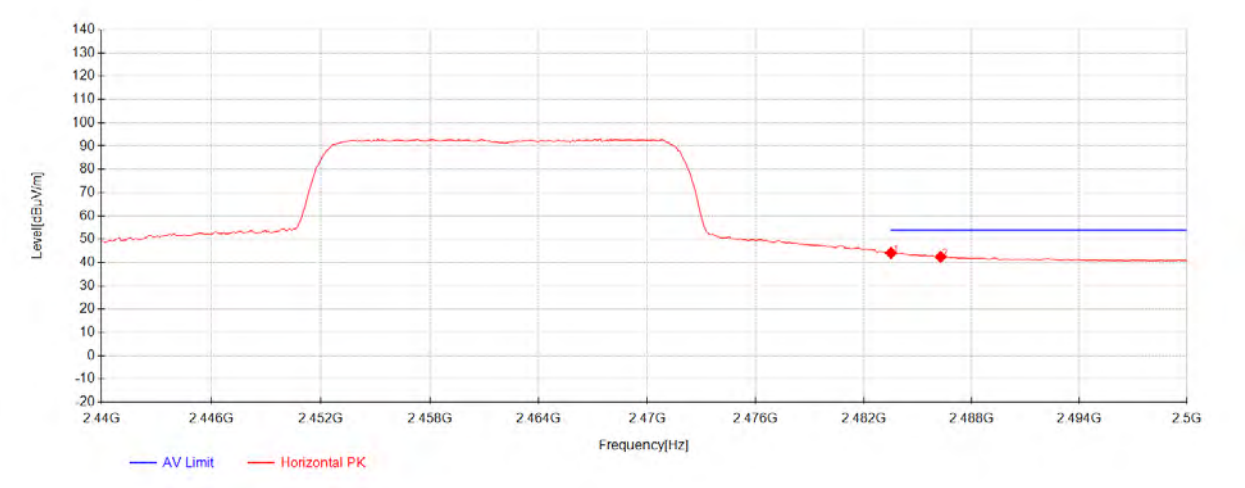
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2483.68         | 54.54          | 27.36     | -23.27      | 58.63          | 74.00          | 15.37       | Horizontal |
| 2               | 2492.44         | 51.75          | 27.38     | -23.26      | 55.87          | 74.00          | 18.13       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 178 of 180

802.11ax20 MIMO\_Channel 11



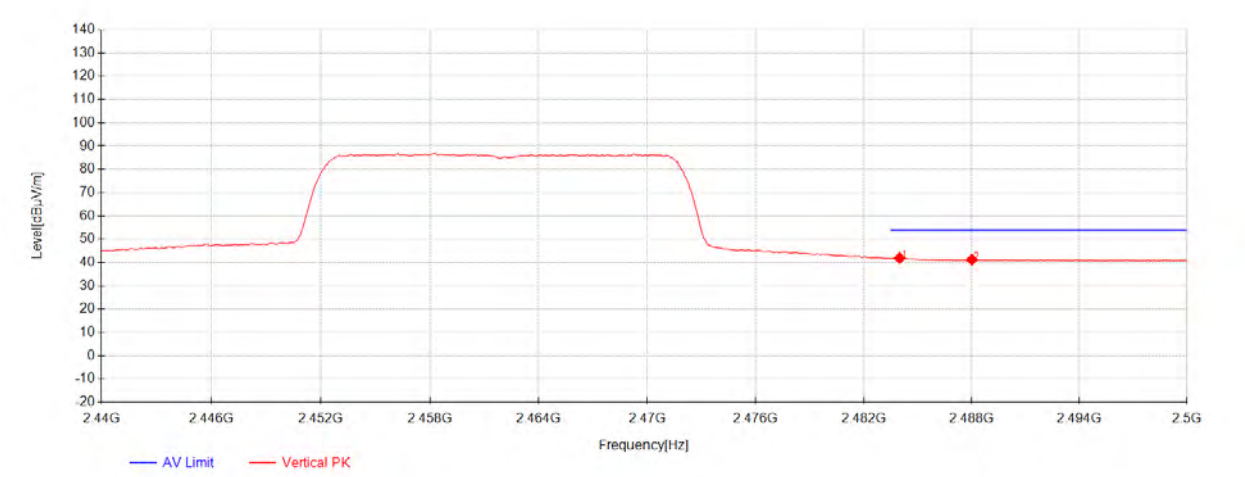
| Final Data List |                 |                |           |             |                |                |             |            |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1               | 2483.5          | 40.06          | 27.36     | -23.27      | 44.15          | 54.00          | 9.85        | Horizontal |
| 2               | 2486.26         | 38.40          | 27.37     | -23.27      | 42.50          | 54.00          | 11.50       | Horizontal |



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403  
Rev.: Amendment 02  
Page: 179 of 180

802.11ax20 MIMO\_Channel 11



| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2483.98         | 37.86          | 27.36     | -23.27      | 41.96          | 54.00          | 12.04       | Vertical |
| 2               | 2488            | 37.14          | 27.37     | -23.27      | 41.25          | 54.00          | 12.75       | Vertical |



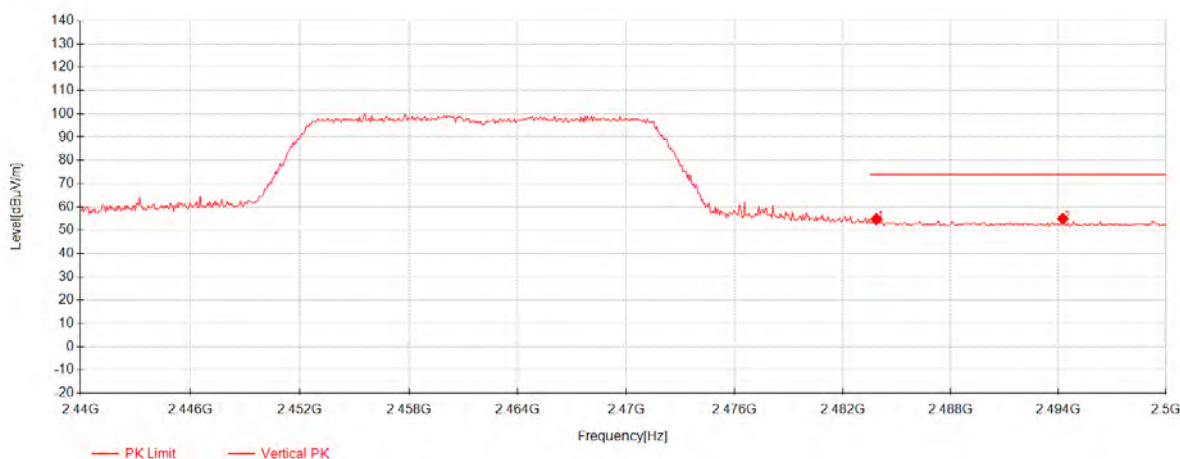
## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100002403

Rev.: Amendment 02

Page: 180 of 180

### 802.11ax20 MIMO\_Channel 11



| Final Data List |                 |                |           |             |                |                |             |          |
|-----------------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1               | 2483.86         | 50.74          | 27.36     | -23.27      | 54.83          | 74.00          | 19.17       | Vertical |
| 2               | 2494.24         | 50.88          | 27.39     | -23.26      | 55.00          | 74.00          | 19.00       | Vertical |

#### Remark:

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

Level = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – Level(dBμV/m)

- 2) Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---