

# Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

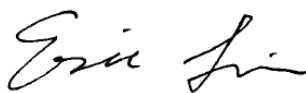
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## TEST REPORT

**Application No.:** KSCR2209001611AT  
**FCC ID:** 2APJ4-SLM500  
**IC:** 23860-SLM500  
**Applicant:** MeiG Smart Technology Co., Ltd  
**Address of Applicant:** 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen, China.  
**Manufacturer:** MeiG Smart Technology Co., Ltd  
**Address of Manufacturer:** 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen, China.  
**Equipment Under Test (EUT):**  
**EUT Name:** Smart Module  
**Model No.:** SLM500  
**Trade Mark:** Meig Link  
**Standard(s) :** 47 CFR Part 15, Subpart E 15.407  
RSS-247 Issue 2, February 2017  
RSS-Gen Issue 5 Amendment 2 (February 2021)  
**Date of Receipt:** 2022-09-01  
**Date of Test:** 2022-09-01 to 2022-09-01  
**Date of Issue:** 2022-09-02

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

\* In the configuration tested, the EUT complied with the standards specified above.



Eric Lin  
Laboratory Manager



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| Revision Record |             |            |                                                |
|-----------------|-------------|------------|------------------------------------------------|
| Version         | Description | Date       | Remark                                         |
| 00              | C2PC        | 2022-09-02 | Based on<br>SZCR2103000030AT<br>Added 802.11AC |
|                 |             |            |                                                |
|                 |             |            |                                                |

|                          |  |                             |  |
|--------------------------|--|-----------------------------|--|
| Authorized for issue by: |  |                             |  |
|                          |  | Damon Zhou                  |  |
|                          |  | Damon_Zhou/Project Engineer |  |
|                          |  | Eric Lin                    |  |
|                          |  | Eric Lin /Reviewer          |  |



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## 2 Test Summary

| Radio Spectrum Technical Requirement |                                      |                        |        |        |
|--------------------------------------|--------------------------------------|------------------------|--------|--------|
| Item                                 | FCC Requirement                      | IC Requirement         | Method | Result |
| Antenna Requirement                  | 47 CFR Part 15, Subpart C 15.203     | RSS-Gen Clause 6.8     | N/A    | Pass   |
| Transmission in the Absence of Data  | 47 CFR Part 15, Subpart E 15.407 (c) | RSS-247 Section 6.4(a) | N/A    | Pass   |

N/A: Not applicable

| Radio Spectrum Matter Part                            |                                                          |                                           |                                                      |        |
|-------------------------------------------------------|----------------------------------------------------------|-------------------------------------------|------------------------------------------------------|--------|
| Item                                                  | FCC Requirement                                          | IC Requirement                            | Method                                               | Result |
| Conducted Emissions at AC Power Line (150kHz-30MHz)   | 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(6) | RSS-Gen Section 8.8                       | ANSI C63.10 (2013) Section 6.2                       | Pass   |
| 99% Bandwidth                                         | N/A                                                      | RSS-Gen Section 6.7                       | KDB 789033 II D                                      | Pass   |
| 26dB Emission bandwidth                               | 47 CFR Part 15, Subpart E 15.407 (a)                     | RSS-247 Section 6.2.1(1)                  | KDB 789033 D02 II C 1                                | Pass   |
| Minimum 6 dB bandwidth (5.725-5.85 GHz band )         | 47 CFR Part 15, Subpart E 15.407 (e)                     | RSS-247 Section 6.2.4                     | KDB 789033 D02 II C 2                                | Pass   |
| Maximum Conducted output power                        | 47 CFR Part 15, Subpart E 15.407 (a)                     | RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2.4   | KDB 789033 D02 II E                                  | Pass   |
| Peak Power spectrum density                           | 47 CFR Part 15, Subpart E 15.407 (a)                     | RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2.4   | KDB 789033 D02 II F                                  | Pass   |
| Radiated Emissions                                    | 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)   | RSS-247 Section 3.3 & RSS-Gen Section 8.9 | KDB 789033 D02 II G                                  | Pass   |
| Radiated Emissions which fall in the restricted bands | 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)   | RSS-247 Section 3.3 & RSS-Gen Section 8.9 | KDB 789033 D02 II G                                  | Pass   |
| Frequency Stability                                   | 47 CFR Part 15, Subpart E 15.407 (g)                     | RSS-Gen Section 6.11                      | ANSI C63.10 (2013) Section 6.8& RSS-Gen Section 6.11 | Pass   |



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## 4 General Information

### 4.1 Details of E.U.T.

|                              |                                                                                                    |
|------------------------------|----------------------------------------------------------------------------------------------------|
| Power supply:                | DC 3.8V by DC power supply                                                                         |
| Test voltage:                | DC 3.8V                                                                                            |
| Operation Frequency (20MHz): | U-NII-1: 5180-5240MHz<br>U-NII-2A: 5260-5320MHz<br>U-NII-2C: 5500-5700MHz<br>U-NII-3: 5745-5825MHz |
| Operation Frequency (40MHz): | U-NII-1: 5190-5230MHz<br>U-NII-2A: 5270-5310MHz<br>U-NII-2C: 5510-5670MHz<br>U-NII-3: 5755-5795MHz |
| Operation Frequency (80MHz): | U-NII-1: 5210MHz<br>U-NII-2A: 5290MHz<br>U-NII-2C: 5530-5610MHz<br>U-NII-3: 5775MHz                |
| Moudulation Type:            | 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM)                                                          |
| Channel Spacing:             | 802.11ac(VHT20): 20MHz<br>802.11ac(VHT40): 40MHz<br>802.11ac(VHT80): 80MHz                         |
| DFS Function:                | Slave without Radar detection                                                                      |
| Antenna Type:                | Dipole Antenna                                                                                     |
| Antenna Gain:                | 1dBi (Provided by manufacturer)                                                                    |

### 4.2 Description of Support Units

| Description     | Manufacturer | Model No. | Serial No. |
|-----------------|--------------|-----------|------------|
| DC Power Supply | Laboratory   | N/A       | E903131    |
| Laptop          | Lenovo       | /         | /          |



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### 4.3 Measurement Uncertainty

| No. | Item                            | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1   | Radio Frequency                 | $8.4 \times 10^{-8}$    |
| 2   | Timeout                         | 2s                      |
| 3   | Duty Cycle                      | 0.37%                   |
| 4   | Occupied Bandwidth              | 3%                      |
| 5   | RF Conducted Power              | 0.6dB                   |
| 6   | RF Power Density                | 2.9dB                   |
| 7   | Conducted Spurious Emissions    | 0.75dB                  |
| 8   | RF Radiated Power               | 5.2dB (Below 1GHz)      |
|     |                                 | 5.9dB (Above 1GHz)      |
| 9   | Radiated Spurious Emission Test | 4.2dB (Below 30MHz)     |
|     |                                 | 4.5dB (30MHz-1GHz)      |
|     |                                 | 5.1dB (1GHz-18GHz)      |
|     |                                 | 5.4dB (Above 18GHz)     |
| 10  | Temperature Test                | 1°C                     |
| 11  | Humidity Test                   | 3%                      |
| 12  | Supply Voltages                 | 1.5%                    |
| 13  | Time                            | 3%                      |

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .



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### 4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

### 4.5 Test Facility

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

#### • CNAS

Compliance Certification Services (Kunshan) Inc. is accredited by the China National Accreditation Service for Conformity Assessment (CNAS). Registration No. CNAS L4354

#### • A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

#### • FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

#### • ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

#### • VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

| Item                                                        | Equipment                            | Manufacturer       | Model        | Inventory No      | Cal Date   | Cal. Due Date |
|-------------------------------------------------------------|--------------------------------------|--------------------|--------------|-------------------|------------|---------------|
| <b>Conducted Emission at Mains Terminals (150kHz-30MHz)</b> |                                      |                    |              |                   |            |               |
| 1                                                           | EMI Test Receive                     | R&S                | ESCI         | KS301101          | 01/22/2022 | 01/21/2023    |
| 2                                                           | LISN                                 | R&S                | ENV216       | KS301197          | 01/22/2022 | 01/21/2023    |
| 3                                                           | LISN                                 | Schwarzbeck        | NNLK 8129    | KS301091          | 01/22/2022 | 01/21/2023    |
| 4                                                           | Pulse Limiter                        | R&S                | ESH3-Z2      | KUS1902E001       | 01/22/2022 | 01/21/2023    |
| 5                                                           | CE test Cable                        | Thermax            | /            | CZ301102          | 11/14/2021 | 11/13/2022    |
| 6                                                           | Test Software                        | Farad              | EZ-EMC       | /                 | N.C.R      | N.C.R         |
| <b>RF Conducted Test</b>                                    |                                      |                    |              |                   |            |               |
| 1                                                           | Spectrum Analyzer                    | Keysight           | N9020A       | KUS1911E004-2     | 08/22/2022 | 08/21/2023    |
| 2                                                           | Spectrum Analyzer                    | Keysight           | N9020A       | KUS2001M001-2     | 08/22/2022 | 08/21/2023    |
| 3                                                           | Spectrum Analyzer                    | Keysight           | N9030B       | KSEM021-1         | 01/22/2022 | 01/21/2023    |
| 4                                                           | Signal Generator                     | R&S                | SMW200A      | KSEM020-1         | 08/22/2022 | 08/21/2023    |
| 5                                                           | Signal Generator                     | Agilent            | N5182A       | KUS2001M001-1     | 08/22/2022 | 08/21/2023    |
| 6                                                           | Radio Communication Test Station     | Anritsu            | MT8000A      | KSEM001-1         | 08/22/2022 | 08/21/2023    |
| 7                                                           | Radio Communication Analyzer         | Anritsu            | MT8821C      | KSEM002-1         | 04/01/2022 | 03/31/2023    |
| 8                                                           | Universal Radio Communication Tester | R&S                | CMW500       | KUS1911E004-1     | 08/22/2022 | 08/21/2023    |
| 9                                                           | Switcher                             | CCSRF              | FY562        | KUS2001M001-3     | 08/22/2022 | 08/21/2023    |
| 10                                                          | AC Power Source                      | EXTECH             | 6605         | KS301178          | N.C.R      | N.C.R         |
| 11                                                          | DC Power Supply                      | Aglient            | E3632A       | KS301180          | N.C.R      | N.C.R         |
| 12                                                          | Conducted Test Cable                 | Thermax            | RF01-RF04    | CZ301111-CZ301120 | 01/16/2022 | 01/15/2023    |
| 13                                                          | Temp. / Humidity Chamber             | TERCHY             | MHK-120AK    | KS301190          | 04/01/2021 | 03/31/2023    |
| 14                                                          | Temperature & Humidity Recorder      | Renke Control      | RS-WS-N01-6J | KSEM024-5         | 04/14/2022 | 04/13/2023    |
| 15                                                          | Software                             | BST                | TST-PASS     | /                 | N/A        | N/A           |
| <b>RF Radiated Test</b>                                     |                                      |                    |              |                   |            |               |
| 1                                                           | Spectrum Analyzer                    | R&S                | FSV40        | KUS1806E003       | 08/22/2022 | 08/21/2023    |
| 2                                                           | Universal Radio Communication Tester | R&S                | CMW500       | KSEM009-1         | 04/01/2022 | 03/31/2023    |
| 3                                                           | Signal Generator                     | Agilent            | E8257C       | KS301066          | 08/22/2022 | 08/21/2023    |
| 4                                                           | Loop Antenna                         | COM-POWER          | AL-130R      | KUS1806E001       | 04/13/2021 | 04/12/2023    |
| 5                                                           | Bilog Antenna                        | TESEQ              | CBL 6112D    | KUS1806E005       | 06/29/2021 | 06/28/2023    |
| 6                                                           | Bilog Antenna                        | SCHWARZBECK        | VULB9160     | CZ301016          | 04/13/2021 | 04/12/2024    |
| 7                                                           | Horn-antenna(1-18GHz)                | Schwarzbeck        | BBHA9120D    | KS301079          | 04/02/2022 | 04/01/2024    |
| 8                                                           | Horn-antenna(1-18GHz)                | ETS-LINDGREN       | 3117         | KS301186          | 02/22/2021 | 02/21/2023    |
| 9                                                           | Horn Antenna(18-40GHz)               | Schwarzbeck        | BBHA9170     | CZ301058          | 03/17/2022 | 03/16/2023    |
| 10                                                          | Amplifier(30MHz~18GHz)               | PANSHAN TECHNOLOGY | LNA:1~18G    | KSEM010-1         | 01/22/2022 | 01/21/2023    |
| 11                                                          | Amplifier(18~40GHz)                  | COM-POWER          | PAM-840A     | KUS1710E001       | 01/22/2022 | 01/21/2023    |
| 12                                                          | RE Test Cable                        | REBES MICROWAVE    | /            | CZ301097          | 11/14/2021 | 11/13/2022    |
| 13                                                          | Temperature & Humidity Recorder      | Renke Control      | RS-WS-N01-6J | KSEM024-4         | 01/04/2022 | 31/03/2023    |
| 14                                                          | Software                             | Faratronic         | EZ-EMC-v 3A1 | /                 | N/A        | N/A           |



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 6.1.2 Conclusion

Standard Requirement:

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

EUT Antenna:

The antenna is dipole antenna and no consideration of replacement. The best case gain of the Antenna is 1dBi.

Antenna location: Refer to internal photo.



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### 6.2 Transmission in the Absence of Data

#### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

#### 6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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## 7 Radio Spectrum Matter Test Results

### 7.1 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test               | 00           | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |
|                          | 01           | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
|                          | 02           | TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
|                          | 03           | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |



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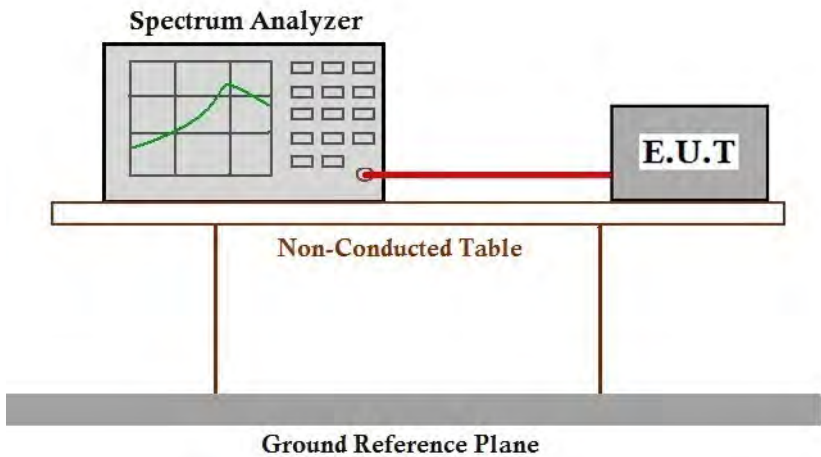
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### 7.1.3 Test Setup Diagram



### 7.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.2 99% Bandwidth

Test Requirement: N/A  
Test Method: KDB 789033 II D

#### 7.2.1 E.U.T. Operation

Operating Environment:  
Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

#### 7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |
|                       | 01        | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
|                       | 02        | TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
|                       | 03        | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |



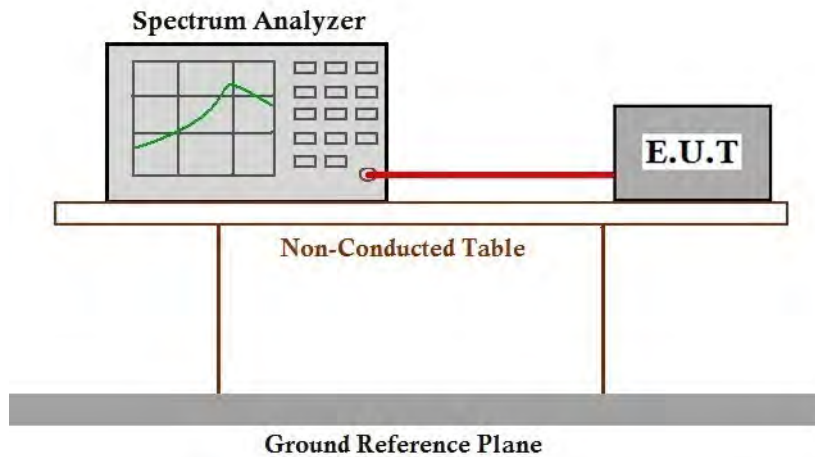
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### 7.2.3 Test Setup Diagram



### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.3 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II C 1

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

#### 7.3.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test               | 00           | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |
|                          | 01           | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
|                          | 02           | TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
|                          | 03           | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |



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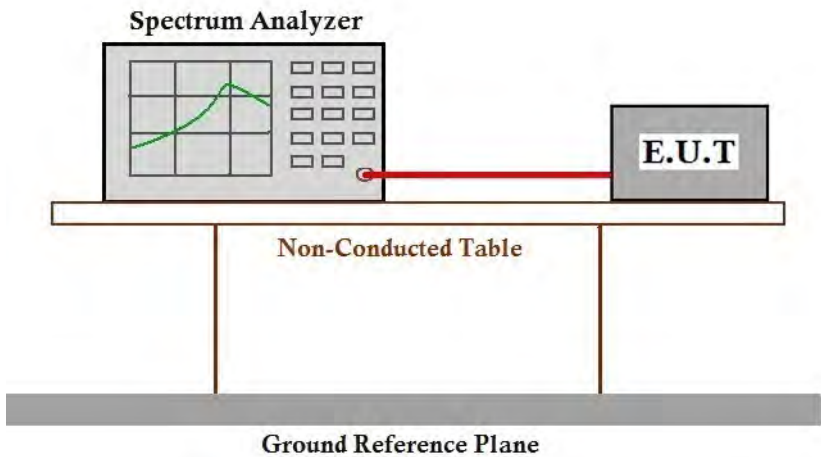
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### 7.3.3 Test Setup Diagram



### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.4 Minimum 6 dB bandwidth (5.725-5.85 GHz band )

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)

Test Method: KDB 789033 D02 II C 2

Limit:

| Frequency band(MHz) | Limit    |
|---------------------|----------|
| 5725-5850           | ≥500 kHz |

#### 7.4.1 E.U.T. Operation

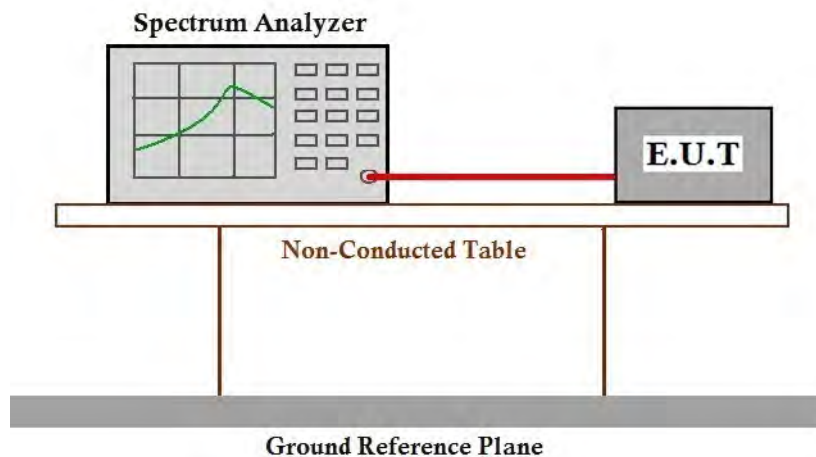
Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

#### 7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 03        | TX mode (U-NII-3) Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

#### 7.4.3 Test Setup Diagram



#### 7.4.4 Measurement Procedure and Data

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### 7.5 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

| Frequency band(MHz) | Limit                                                                                                                                                                                                                                   |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5150-5250           | ≤1W(30dBm) for master device                                                                                                                                                                                                            |
|                     | ≤250mW(24dBm) for client device                                                                                                                                                                                                         |
| 5250-5350           | ≤250mW(24dBm) for client device or 11dBm+10logB*                                                                                                                                                                                        |
| 5470-5725           | ≤250mW(24dBm) for client device or 11dBm+10logB*                                                                                                                                                                                        |
| 5725-5850           | ≤1W(30dBm)                                                                                                                                                                                                                              |
| Remark:             | <p>* Where B is the 26dB emission bandwidth in MHz.</p> <p>The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</p> |

#### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

#### 7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |
|                       | 01        | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
|                       | 02        | TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
|                       | 03        | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE                                                                                                                                                |



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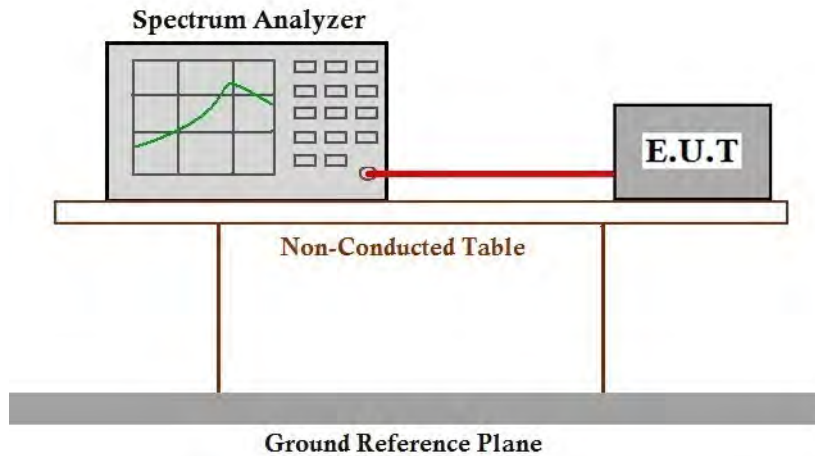
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|  |  |                                                                                                                                               |
|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------|

### 7.5.3 Test Setup Diagram



### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.6 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II F

Limit:

| Frequency band(MHz) | Limit                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5150-5250           | ≤17dBm in 1MHz for master device                                                                                                                         |
|                     | ≤11dBm in 1MHz for client device                                                                                                                         |
| 5250-5350           | ≤11dBm in 1MHz for client device                                                                                                                         |
| 5470-5725           | ≤11dBm in 1MHz for client device                                                                                                                         |
| 5725-5850           | ≤30dBm in 500 kHz                                                                                                                                        |
| Remark:             | The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. |

#### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

#### 7.6.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |
|                       | 01        | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
|                       | 02        | TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
|                       | 03        | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |



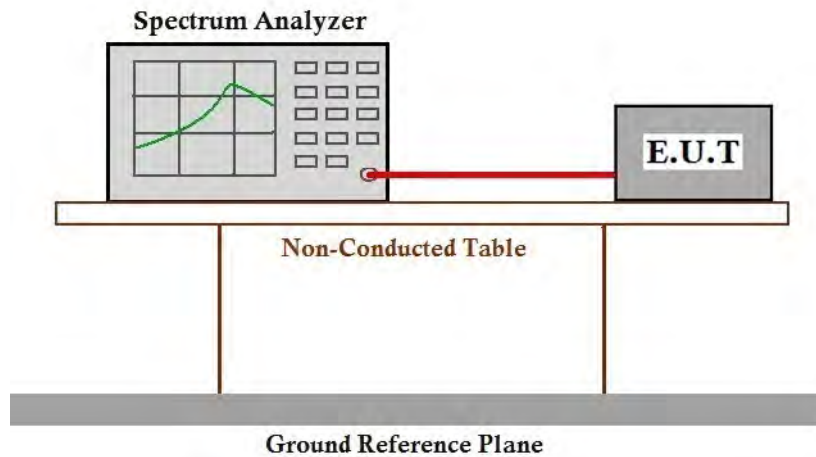
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### 7.6.3 Test Setup Diagram



### 7.6.4 Measurement Procedure and Data

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### 7.7 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

| Frequency(MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Field strength(microvolts/meter) | Measurement distance(meters) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------|
| Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 500                              | 3                            |
| <p>*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(4) For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <p>Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.</p> |                                  |                              |

#### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

#### 7.7.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                  |
|-----------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | TX mode (U-NII-1) Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE |



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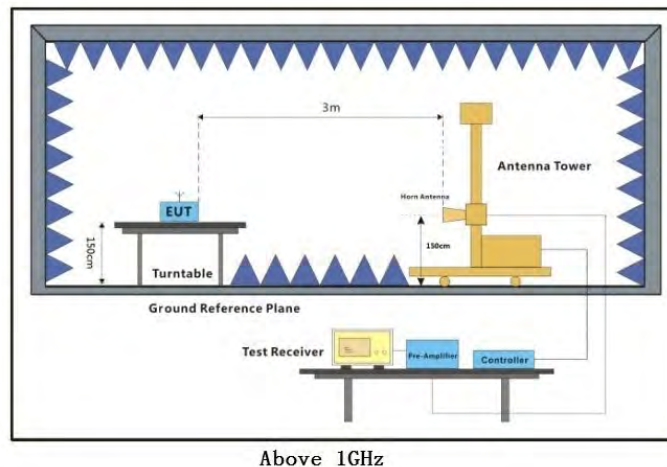
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|    |  |                                                                                                                                                                                                                                                                                                                                                                                             |
|----|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |  | 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.                                                                                                                                                                                                                                               |
| 01 |  | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| 02 |  | TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| 03 |  | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |

### 7.7.3 Test Setup Diagram



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### 7.7.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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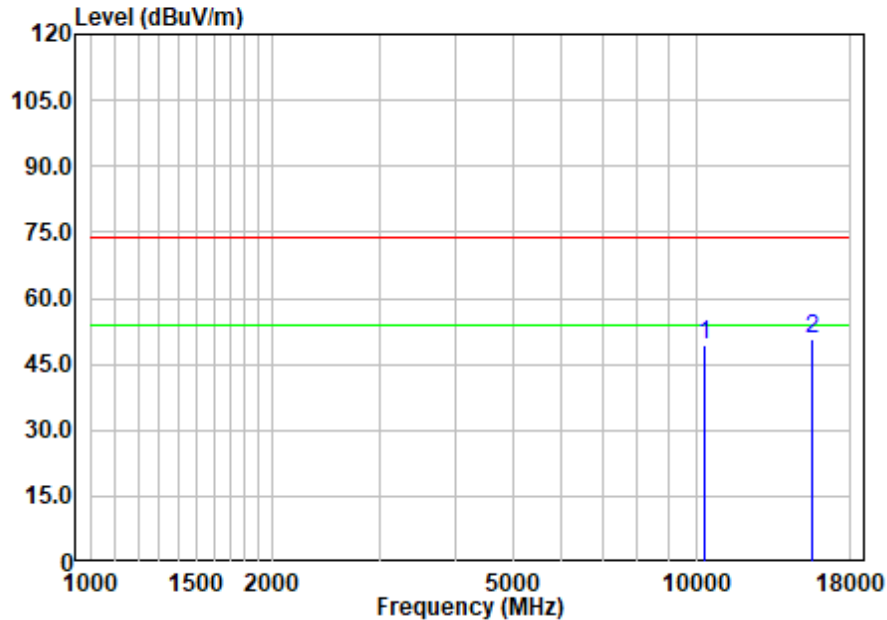
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 10360.000 | 42.48 | 12.58 | 37.58  | 49.57  | 74.00  | -24.43 | Peak   |
| 2 15540.000 | 37.03 | 14.80 | 40.22  | 50.91  | 74.00  | -23.09 | Peak   |



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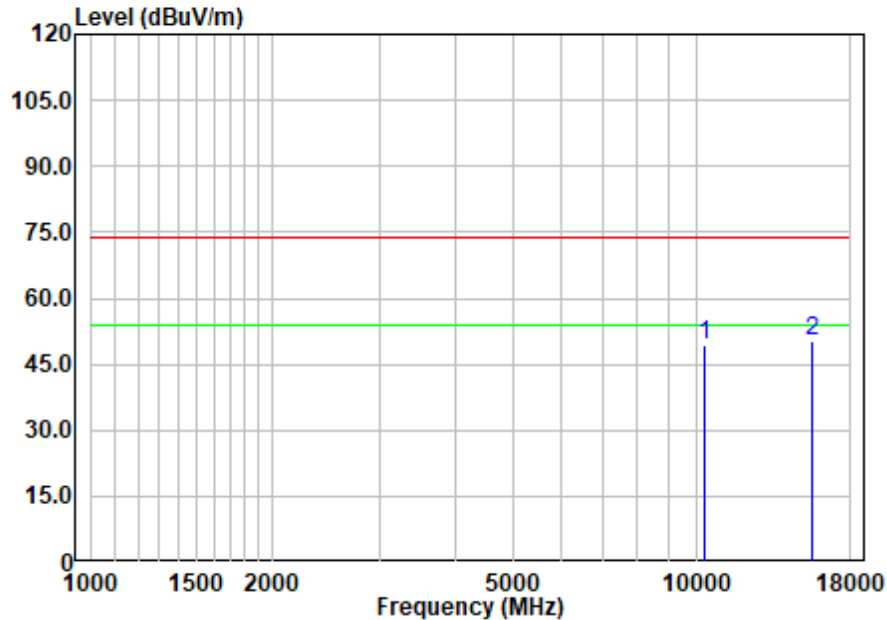
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 10360.000 | 42.33      | 12.58      | 37.58      | 49.42       | 74.00      | -24.58 Peak |
| 2 | 15540.000 | 36.25      | 14.80      | 40.22      | 50.13       | 74.00      | -23.87 Peak |



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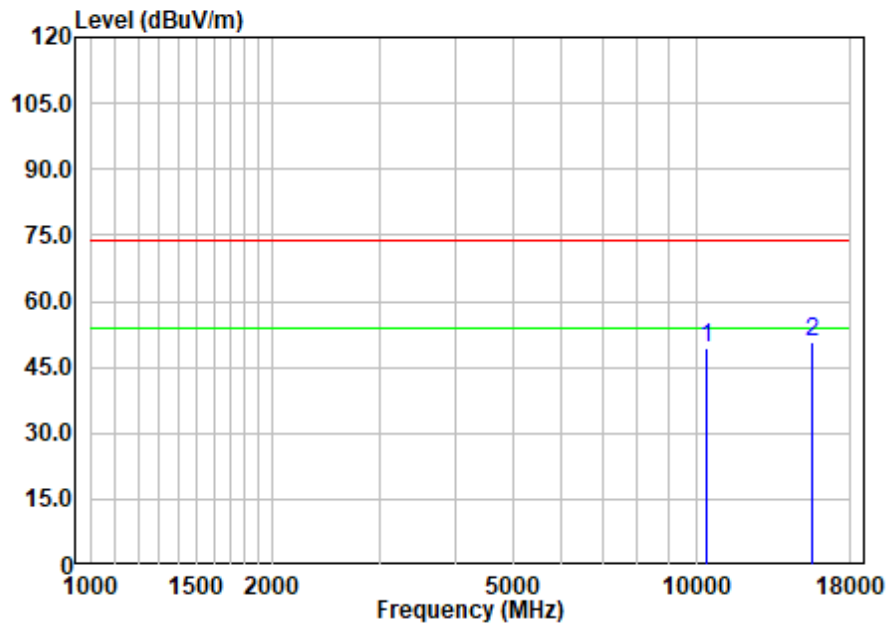
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 10400.000 | 42.33      | 12.58      | 37.62      | 49.38       | 74.00      | -24.62 Peak |
| 2 | 15600.000 | 36.98      | 14.80      | 40.24      | 50.59       | 74.00      | -23.41 Peak |



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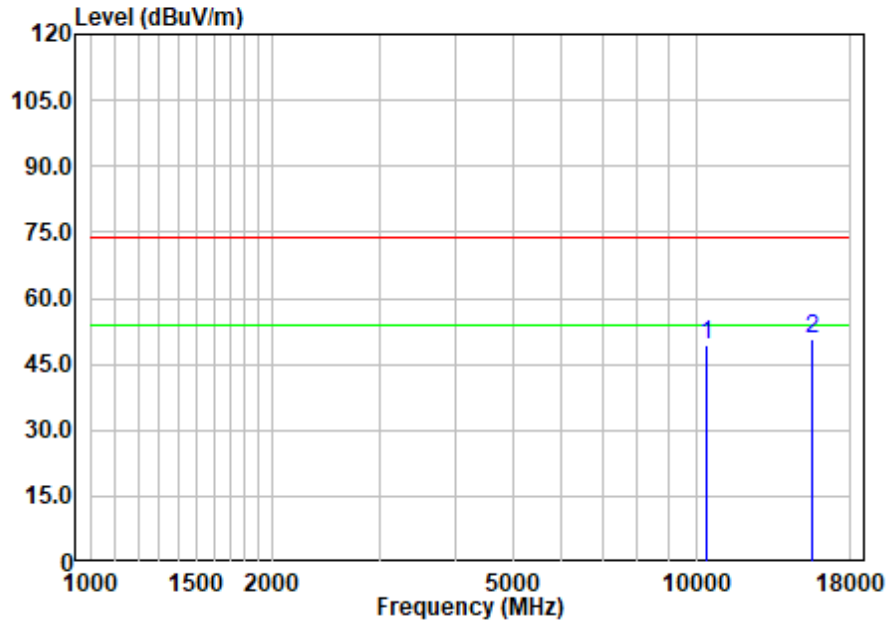
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 10400.000 | 42.35 | 12.58 | 37.62  | 49.40  | 74.00  | -24.60 | Peak   |
| 2 15600.000 | 37.30 | 14.80 | 40.24  | 50.91  | 74.00  | -23.09 | Peak   |



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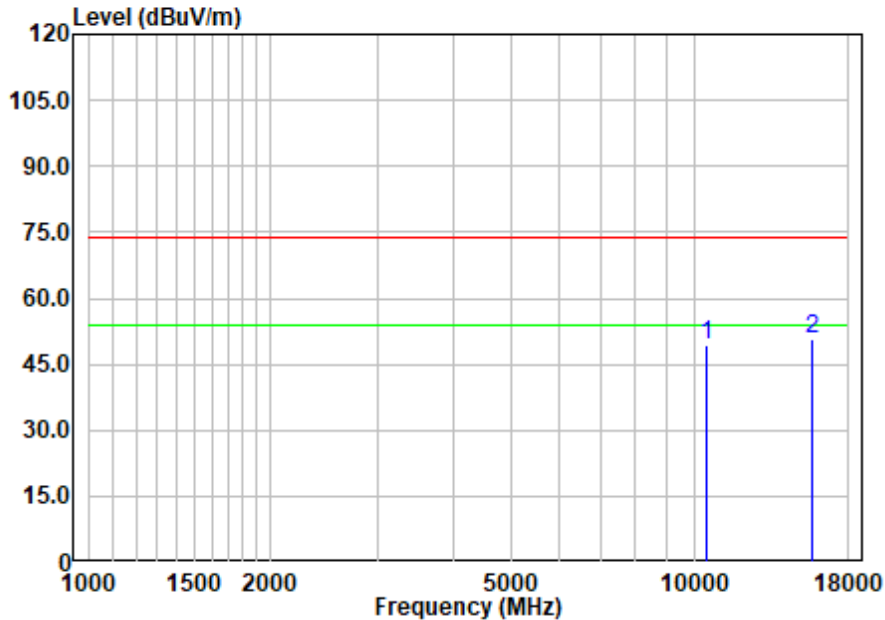
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Test Mode: 00 Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 10480.000 | 42.08      | 12.60      | 37.69      | 49.54       | 74.00      | -24.46 Peak |
| 2 | 15720.000 | 35.66      | 14.81      | 40.29      | 50.68       | 74.00      | -23.32 Peak |



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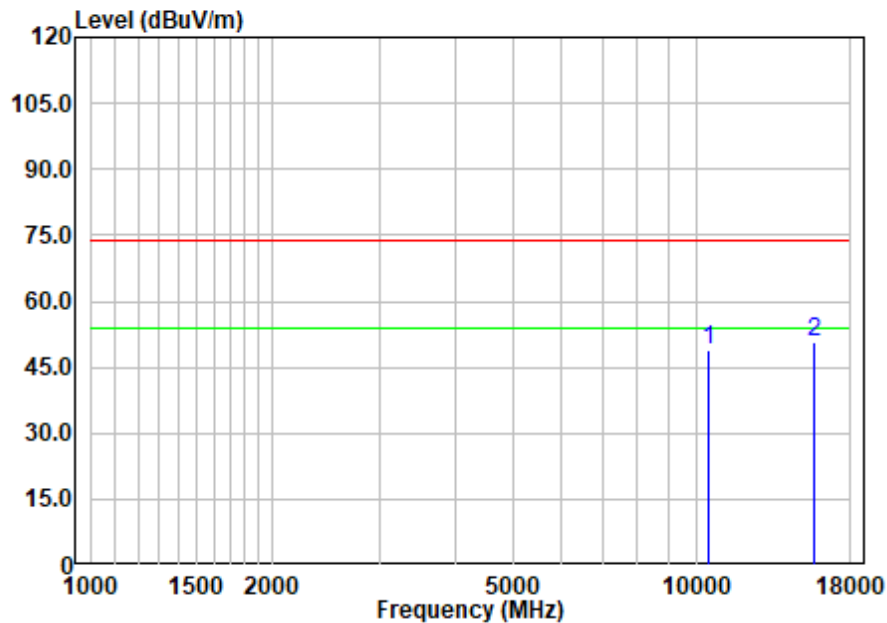
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Test Mode: 00 Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 10480.000 | 41.56      | 12.60      | 37.69      | 49.02       | 74.00      | -24.98 Peak |
| 2 | 15720.000 | 35.91      | 14.81      | 40.29      | 50.93       | 74.00      | -23.07 Peak |



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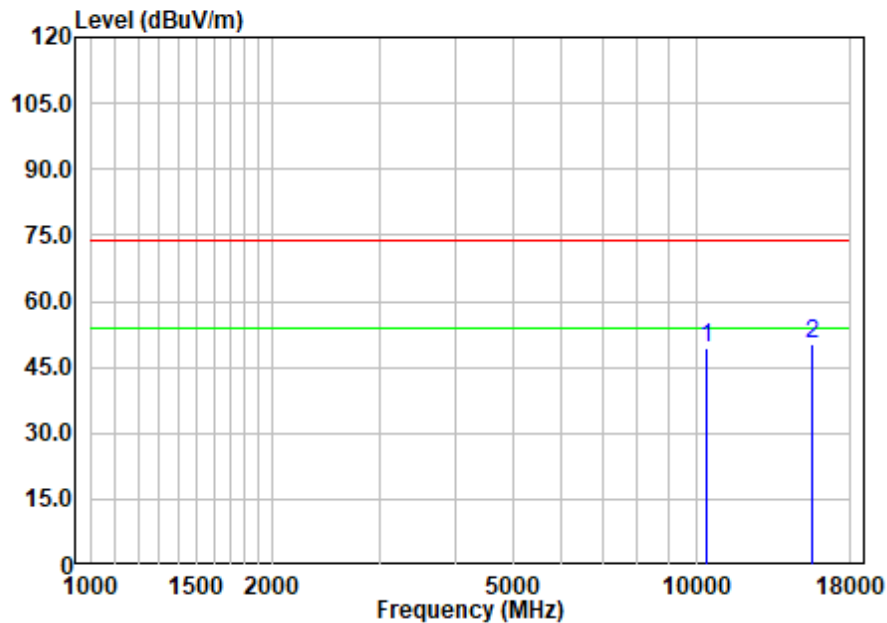
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Test Mode: 00 Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 10380.000 | 42.49 | 12.58 | 37.60  | 49.56  | 74.00  | -24.44 | Peak   |
| 2 15570.000 | 36.70 | 14.80 | 40.23  | 50.44  | 74.00  | -23.56 | Peak   |



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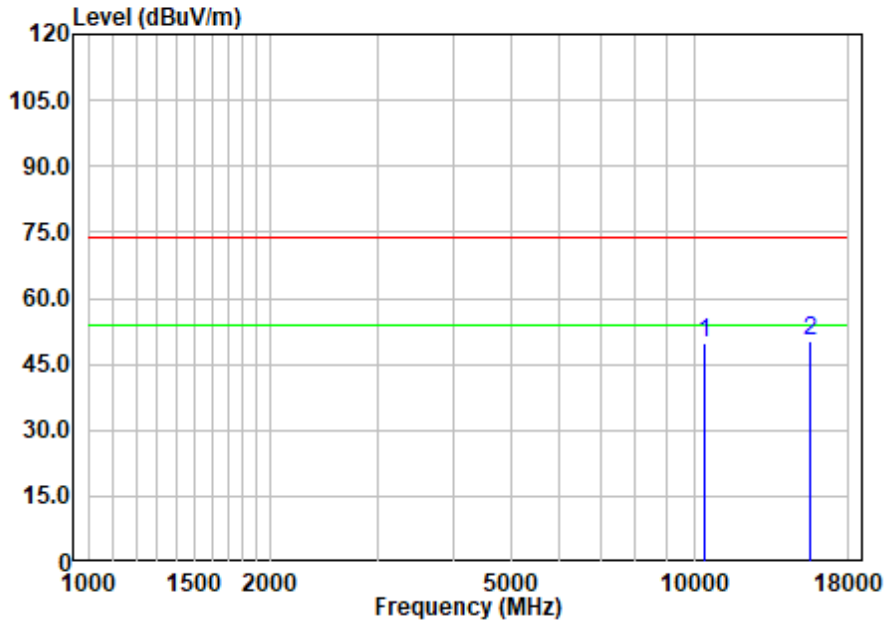
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Test Mode: 00 Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 10380.000 | 42.87      | 12.58      | 37.60      | 49.94       | 74.00      | -24.06 Peak |
| 2 | 15570.000 | 36.60      | 14.80      | 40.23      | 50.34       | 74.00      | -23.66 Peak |



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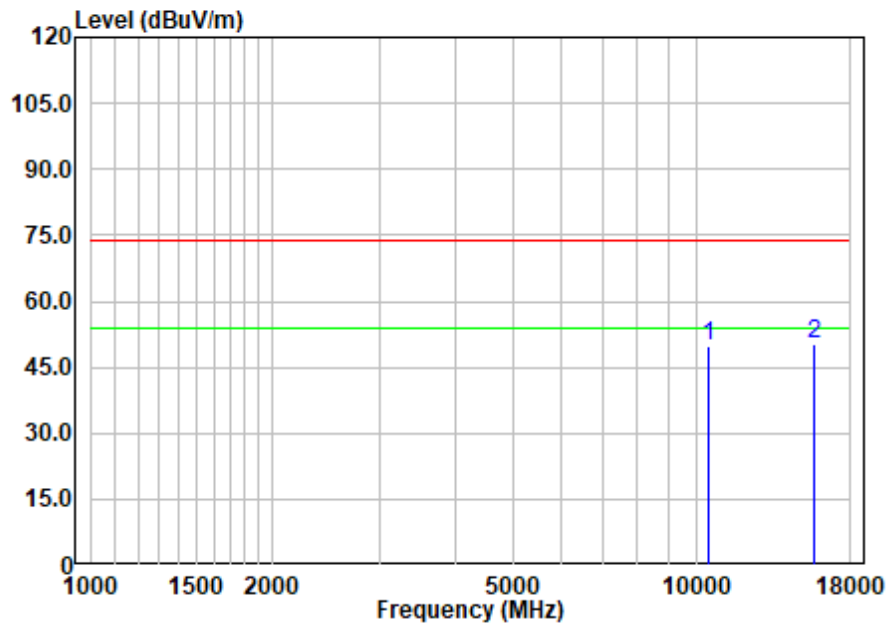
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Test Mode: 00 Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 10460.000 | 42.55 | 12.60 | 37.67  | 49.91  | 74.00  | -24.09 | Peak   |
| 2 15690.000 | 35.75 | 14.81 | 40.28  | 50.38  | 74.00  | -23.62 | Peak   |



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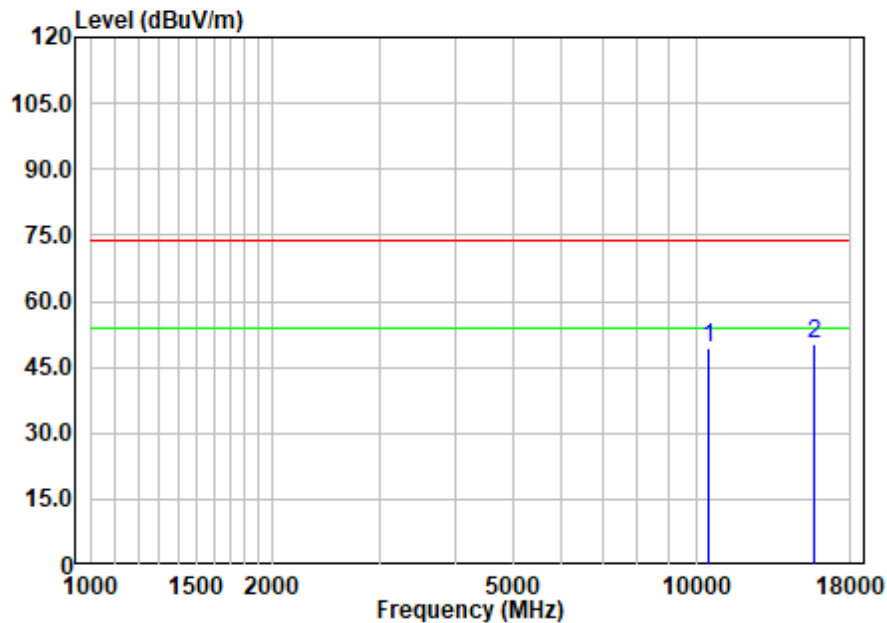
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 00 Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 10460.000 | 42.19 | 12.60 | 37.67  | 49.55  | 74.00  | -24.45 | Peak   |
| 2 15690.000 | 35.72 | 14.81 | 40.28  | 50.35  | 74.00  | -23.65 | Peak   |



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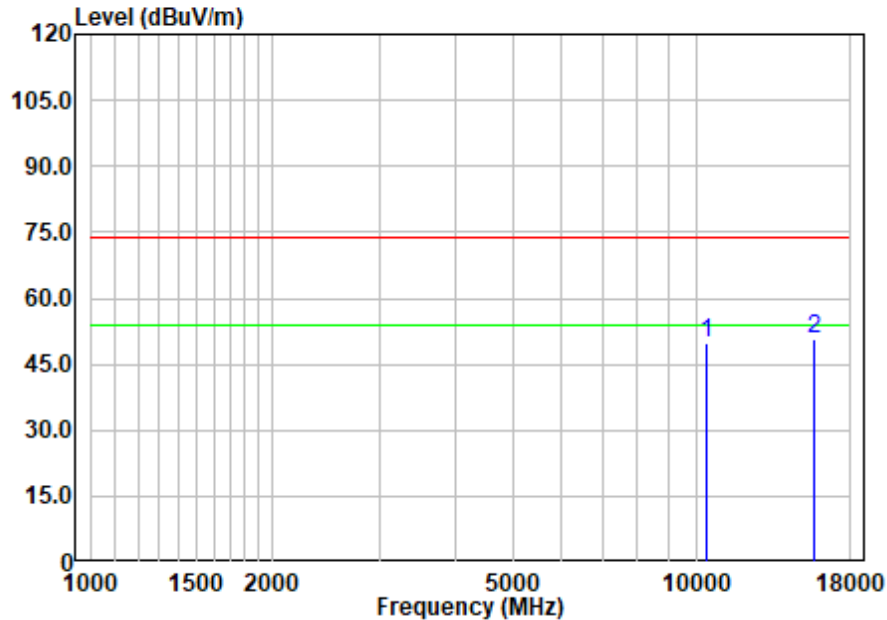
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 00 Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 10420.000 | 42.57 | 12.59 | 37.64  | 49.73  | 74.00  | -24.27 | Peak   |
| 2 15630.000 | 36.77 | 14.80 | 40.25  | 50.71  | 74.00  | -23.29 | Peak   |



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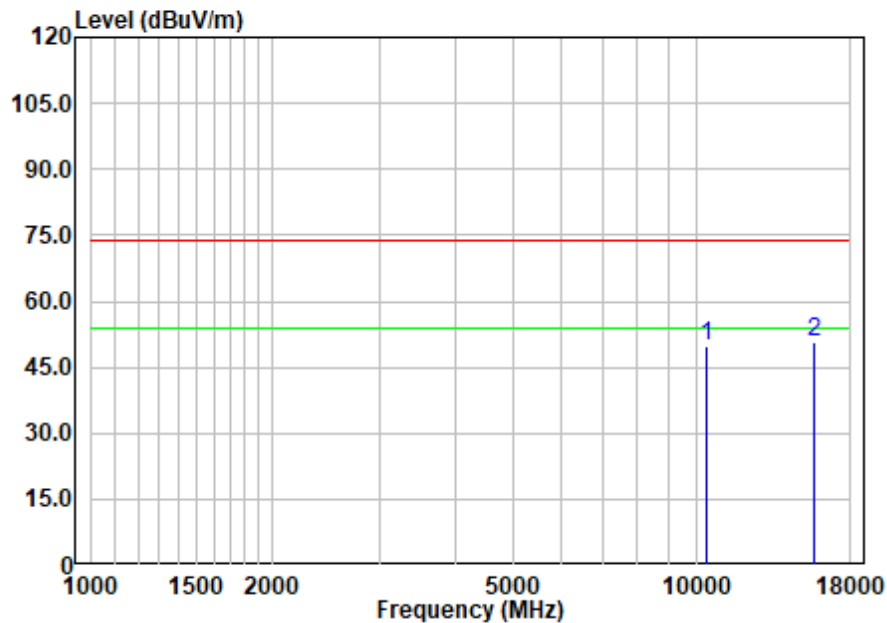
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 00 Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 10420.000 | 42.74      | 12.59      | 37.64      | 49.90       | 74.00      | -24.10 Peak |
| 2 | 15630.000 | 36.80      | 14.80      | 40.25      | 50.74       | 74.00      | -23.26 Peak |



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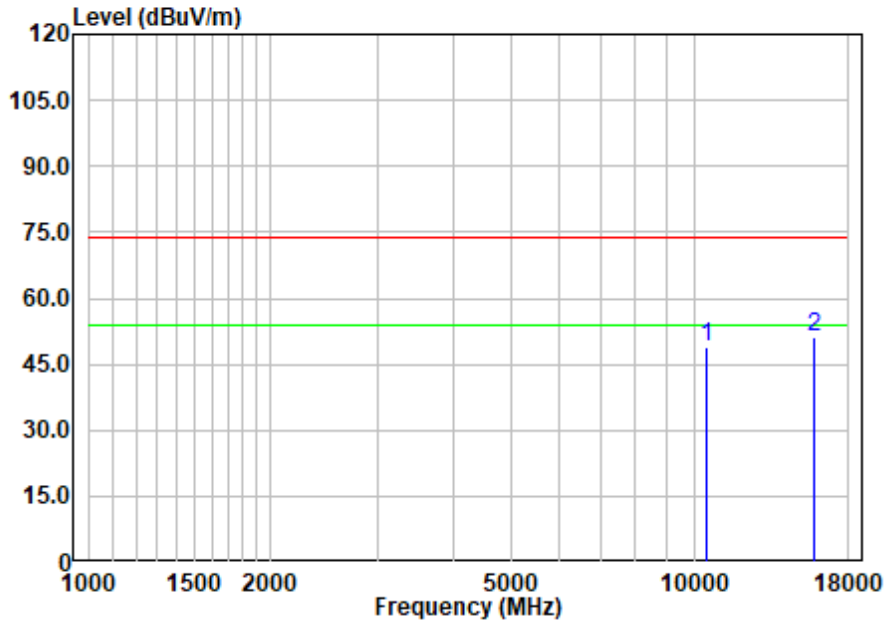
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 10520.000 | 41.43      | 12.61      | 37.73      | 49.11       | 74.00      | -24.89 Peak |
| 2 | 15780.000 | 35.11      | 14.81      | 40.31      | 50.95       | 74.00      | -23.05 Peak |



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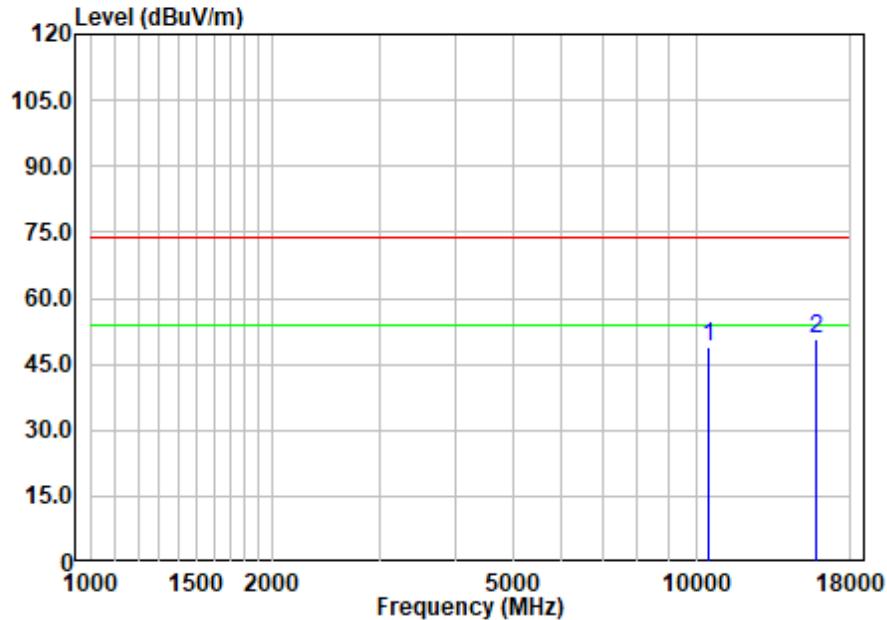
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 10520.000 | 41.42      | 12.61      | 37.73      | 49.10       | 74.00      | -24.90 Peak |
| 2 | 15780.000 | 34.97      | 14.81      | 40.31      | 50.81       | 74.00      | -23.19 Peak |



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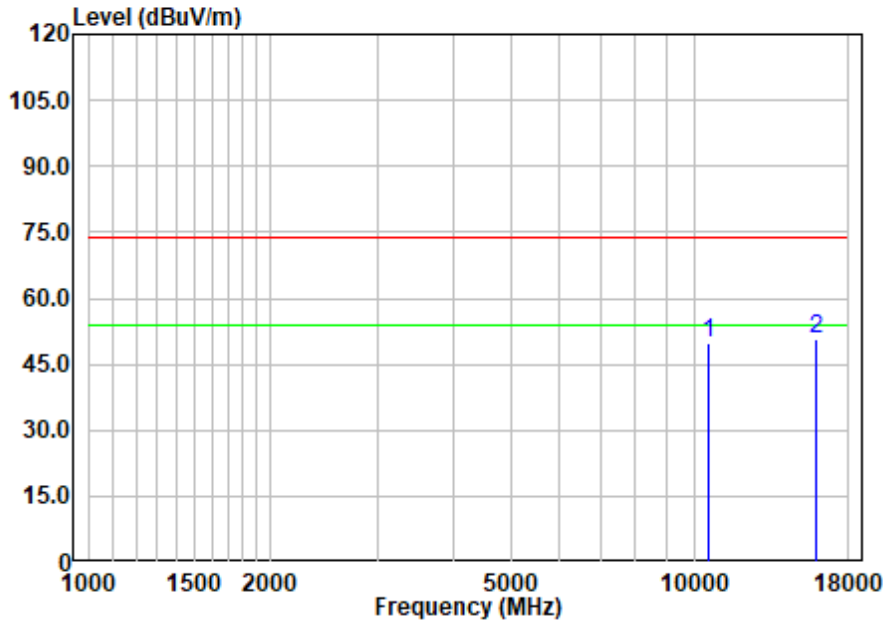
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 10600.000 | 41.57      | 12.62      | 37.80      | 49.71       | 74.00      | -24.29 Peak |
| 2 | 15900.000 | 34.38      | 14.85      | 40.35      | 50.53       | 74.00      | -23.47 Peak |



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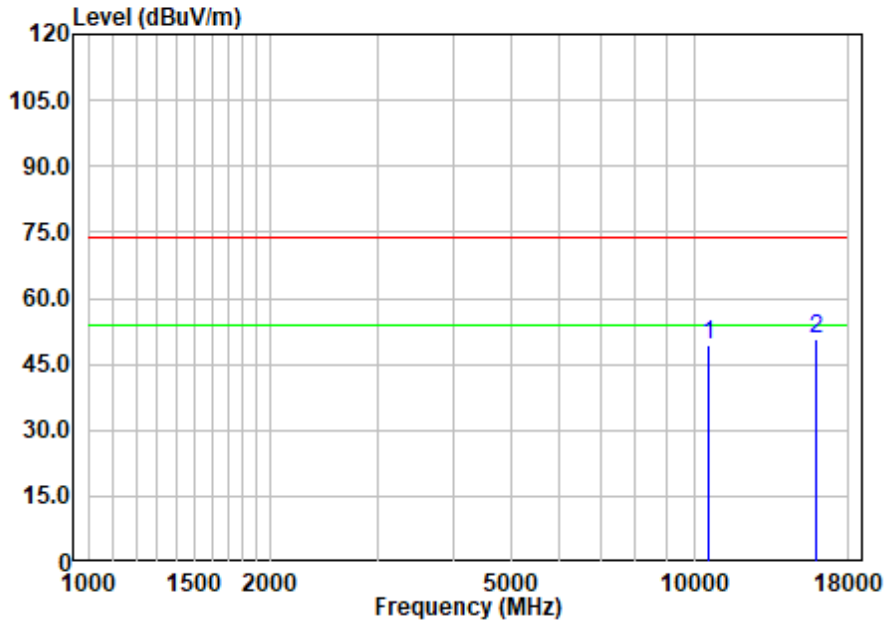
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 01; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 10600.000 | 41.37 | 12.62 | 37.80  | 49.51  | 74.00  | -24.49 | Peak   |
| 2 15900.000 | 34.73 | 14.85 | 40.35  | 50.88  | 74.00  | -23.12 | Peak   |



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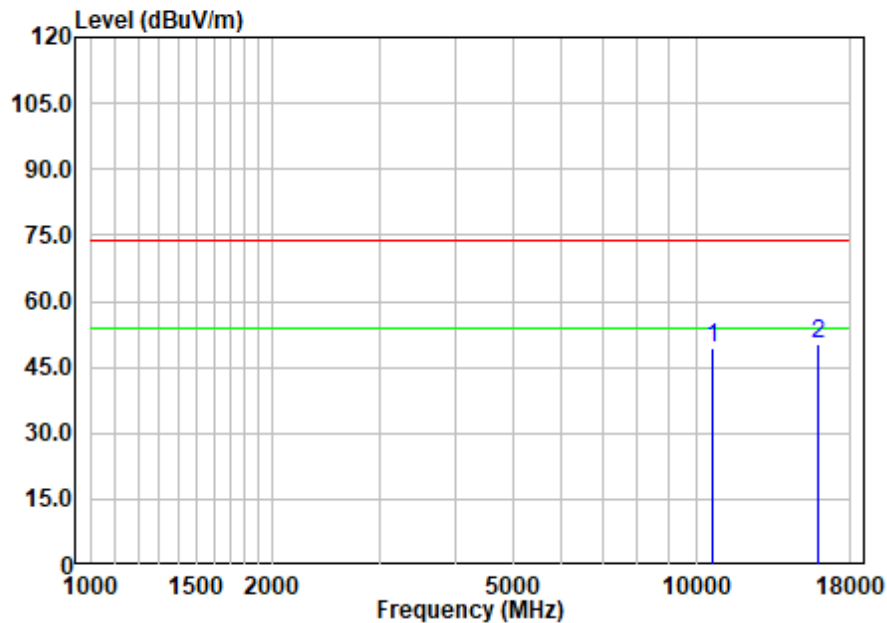
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 10640.000 | 41.22      | 12.63      | 37.83      | 49.49       | 74.00      | -24.51 Peak |
| 2 | 15960.000 | 34.38      | 14.90      | 40.38      | 50.48       | 74.00      | -23.52 Peak |



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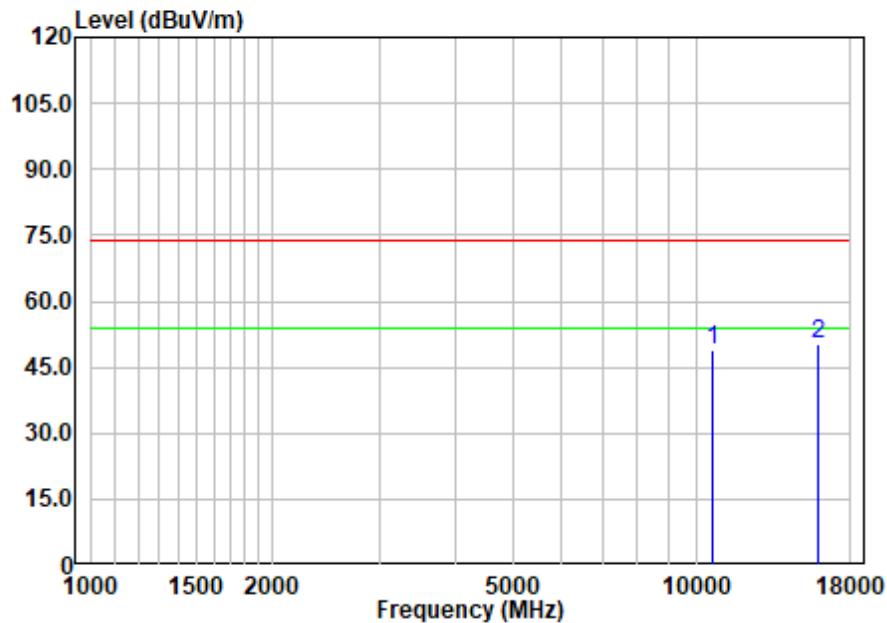
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## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 10640.000 | 40.75      | 12.63      | 37.83      | 49.02       | 74.00      | -24.98 Peak |
| 2 | 15960.000 | 34.02      | 14.90      | 40.38      | 50.12       | 74.00      | -23.88 Peak |



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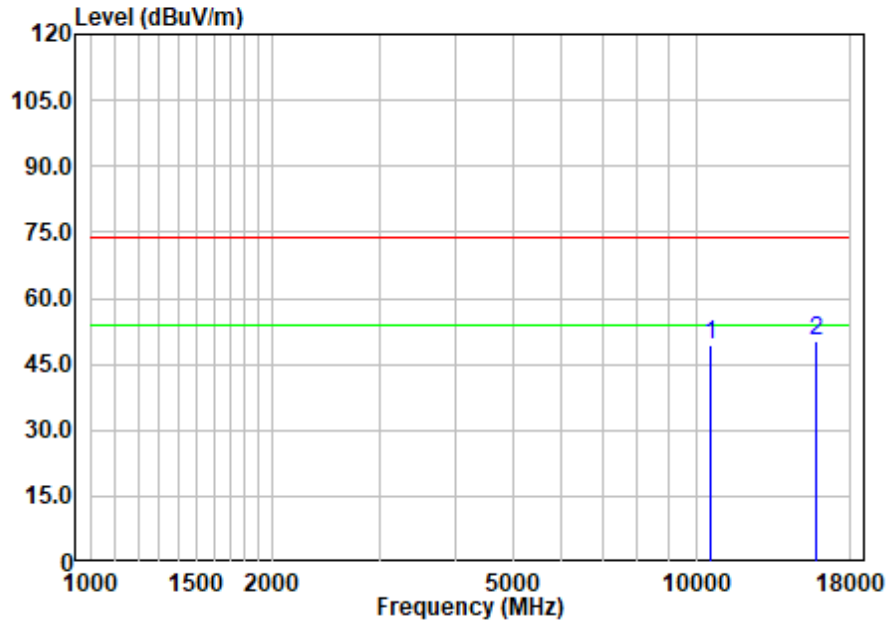
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 10540.000 | 41.79      | 12.61      | 37.74      | 49.58       | 74.00      | -24.42 Peak |
| 2 | 15810.000 | 34.32      | 14.81      | 40.32      | 50.44       | 74.00      | -23.56 Peak |



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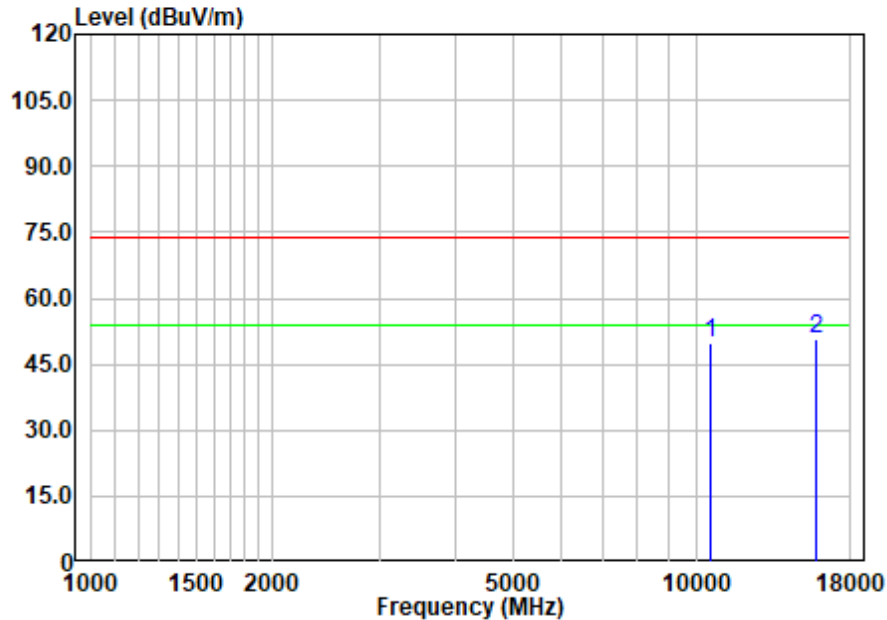
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 45 of 207

Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 10540.000 | 42.16      | 12.61      | 37.74      | 49.95       | 74.00      | -24.05 Peak |
| 2 | 15810.000 | 34.50      | 14.81      | 40.32      | 50.62       | 74.00      | -23.38 Peak |



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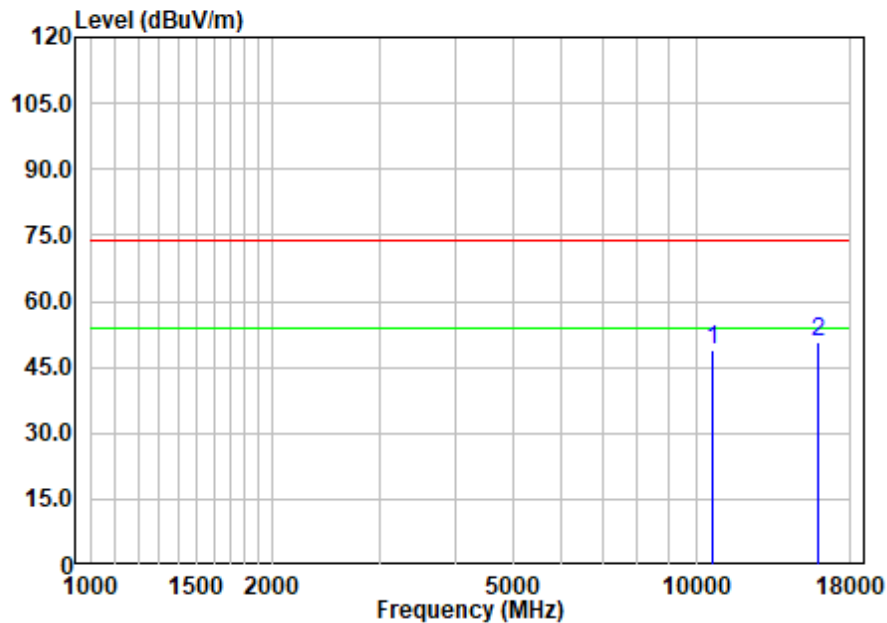
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 10620.000 | 40.87      | 12.62      | 37.82      | 49.07       | 74.00      | -24.93 Peak |
| 2 | 15930.000 | 34.80      | 14.87      | 40.37      | 50.92       | 74.00      | -23.08 Peak |



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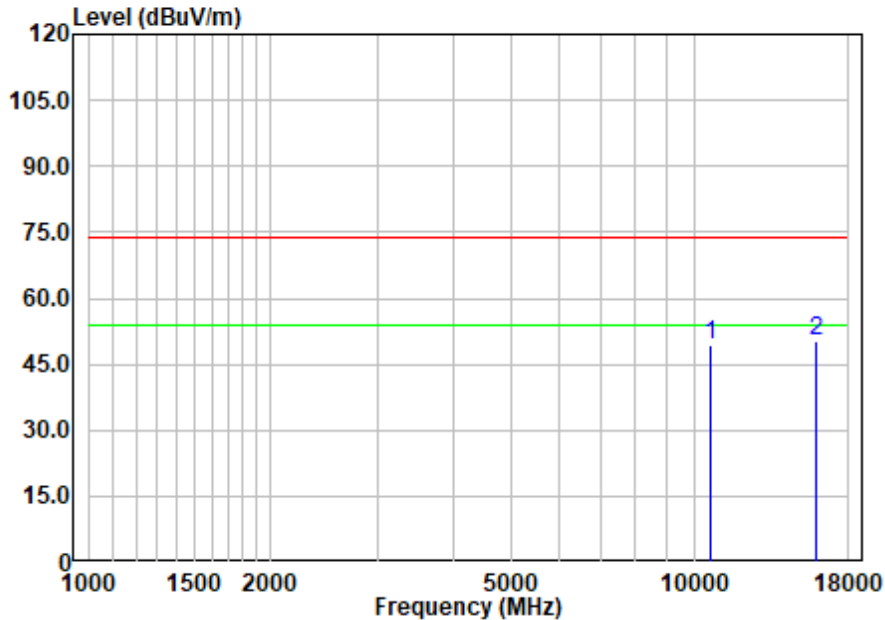
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 10620.000 | 41.36      | 12.62      | 37.82      | 49.56       | 74.00      | -24.44 Peak |
| 2 | 15930.000 | 34.00      | 14.87      | 40.37      | 50.12       | 74.00      | -23.88 Peak |



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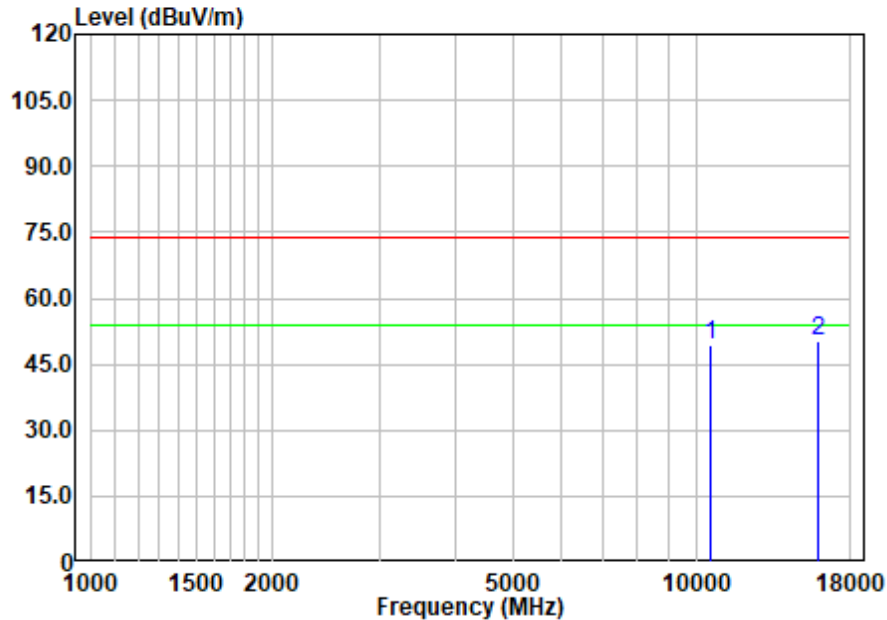
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 10580.000 | 41.29      | 12.62      | 37.78      | 49.32       | 74.00      | -24.68 Peak |
| 2 | 15870.000 | 34.02      | 14.82      | 40.34      | 50.14       | 74.00      | -23.86 Peak |



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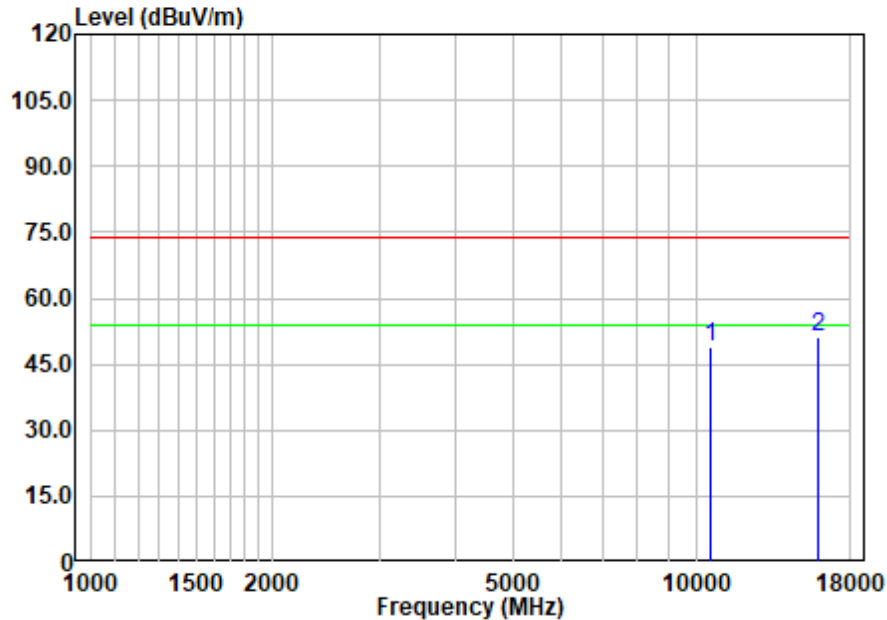
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dBuV/m     | dB          |
| 1 | 10580.000 | 41.00      | 12.62      | 37.78      | 49.03       | 74.00      | -24.97 Peak |
| 2 | 15870.000 | 34.84      | 14.82      | 40.34      | 50.96       | 74.00      | -23.04 Peak |



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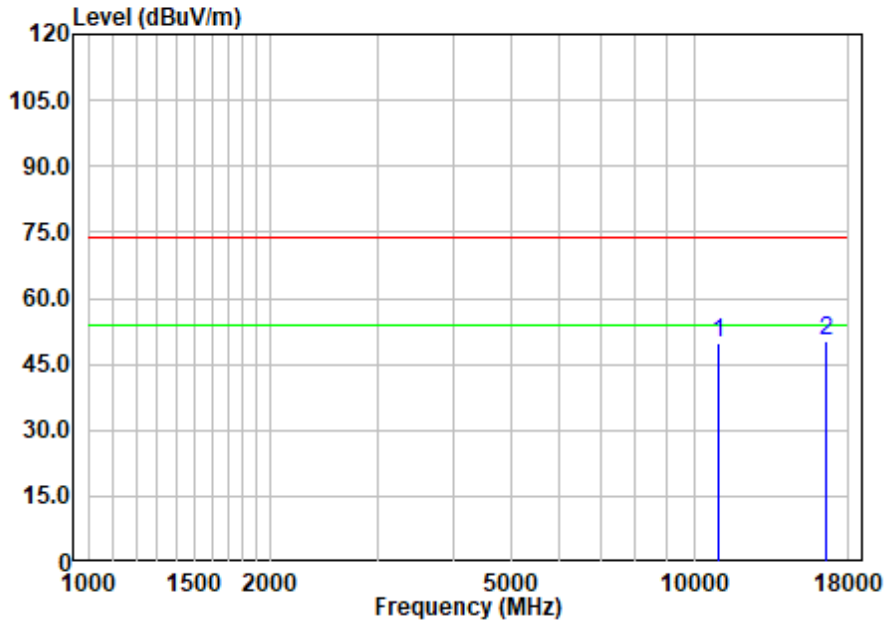
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 11000.000 | 41.79      | 12.77      | 38.17      | 49.71       | 74.00      | -24.29 Peak |
| 2 | 16500.000 | 32.63      | 15.42      | 40.59      | 50.41       | 74.00      | -23.59 Peak |



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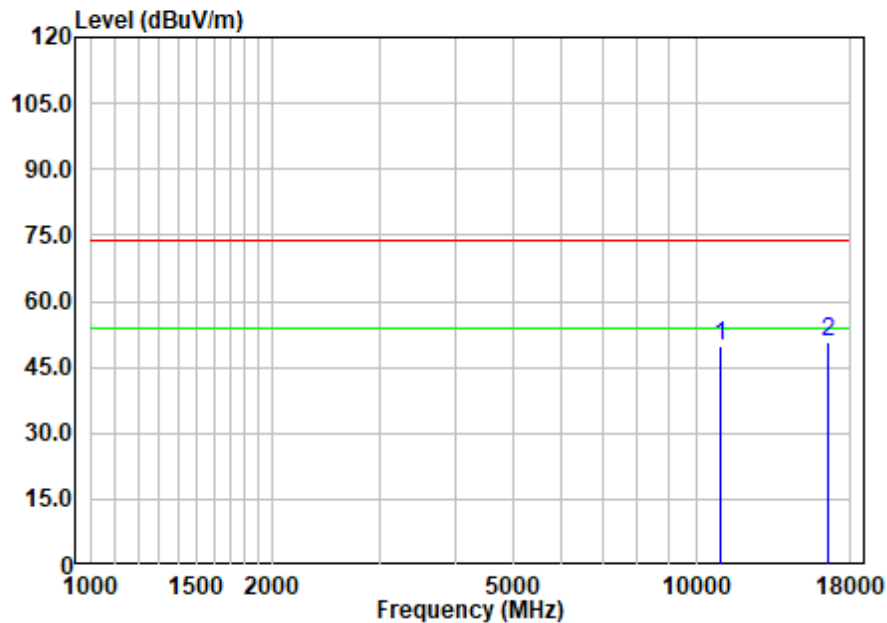
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark |
|---|-----------|------------|------------|------------|-------------|------------|--------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |        |
| 1 | 11000.000 | 41.96      | 12.77      | 38.17      | 49.88       | -24.12     | Peak   |
| 2 | 16500.000 | 33.06      | 15.42      | 40.59      | 50.84       | -23.16     | Peak   |



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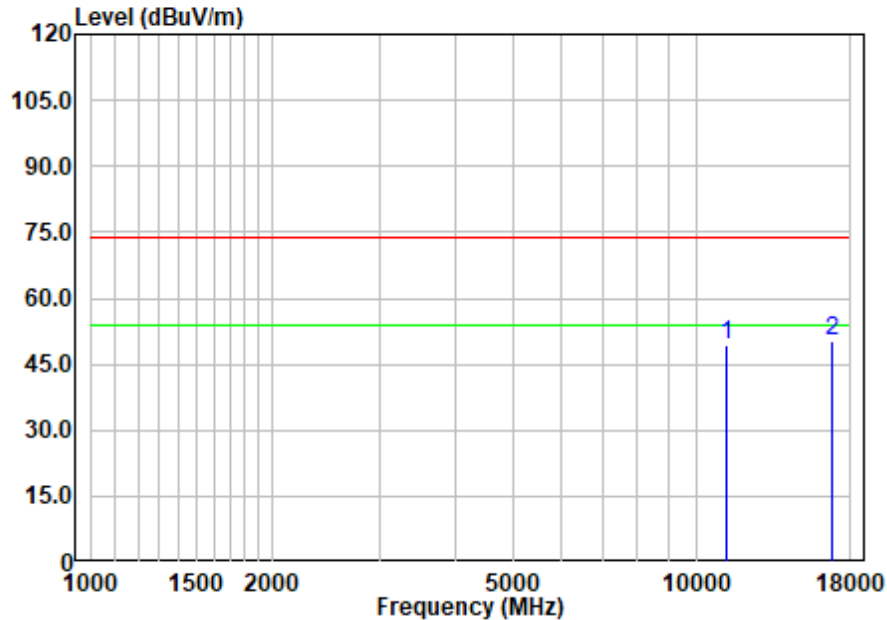
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 11200.000 | 40.72 | 12.89 | 38.36  | 49.46  | 74.00  | -24.54 | Peak   |
| 2 16800.000 | 33.80 | 15.71 | 40.71  | 50.21  | 74.00  | -23.79 | Peak   |



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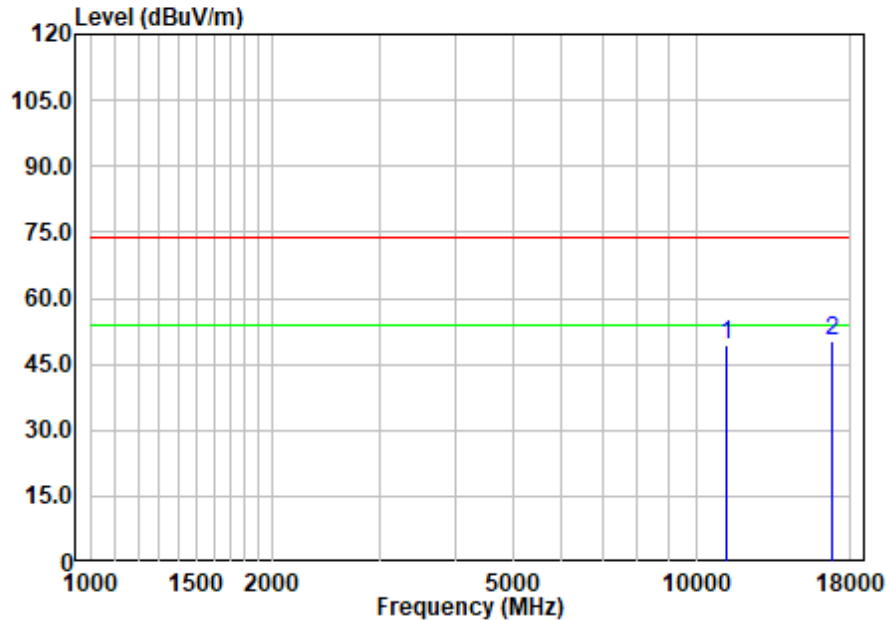
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## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 11200.000 | 40.77 | 12.89 | 38.36  | 49.51  | 74.00  | -24.49 | Peak   |
| 2 16800.000 | 33.78 | 15.71 | 40.71  | 50.19  | 74.00  | -23.81 | Peak   |



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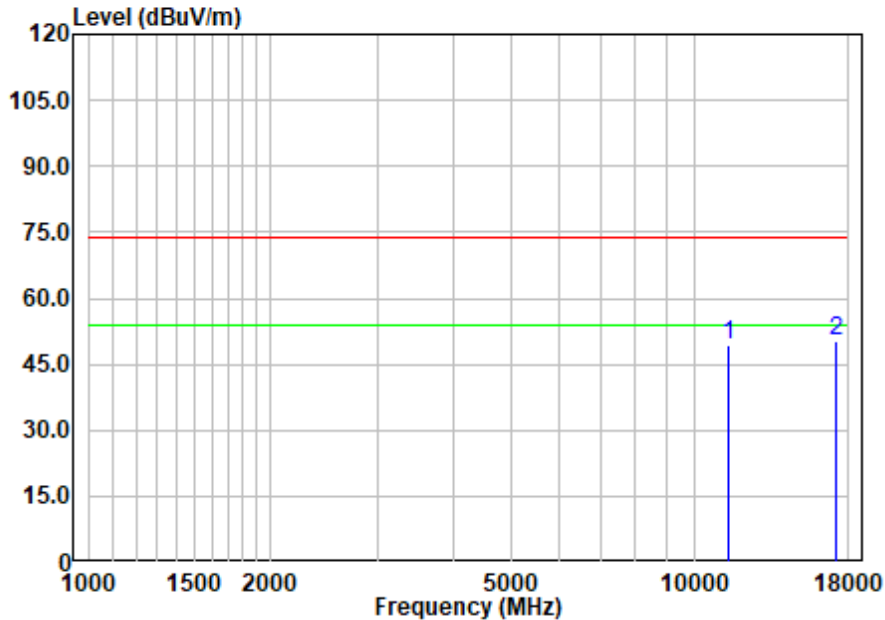
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 11400.000 | 39.97      | 13.02      | 38.56      | 49.15       | 74.00      | -24.85 Peak |
| 2 | 17100.000 | 30.38      | 16.00      | 40.83      | 50.38       | 74.00      | -23.62 Peak |



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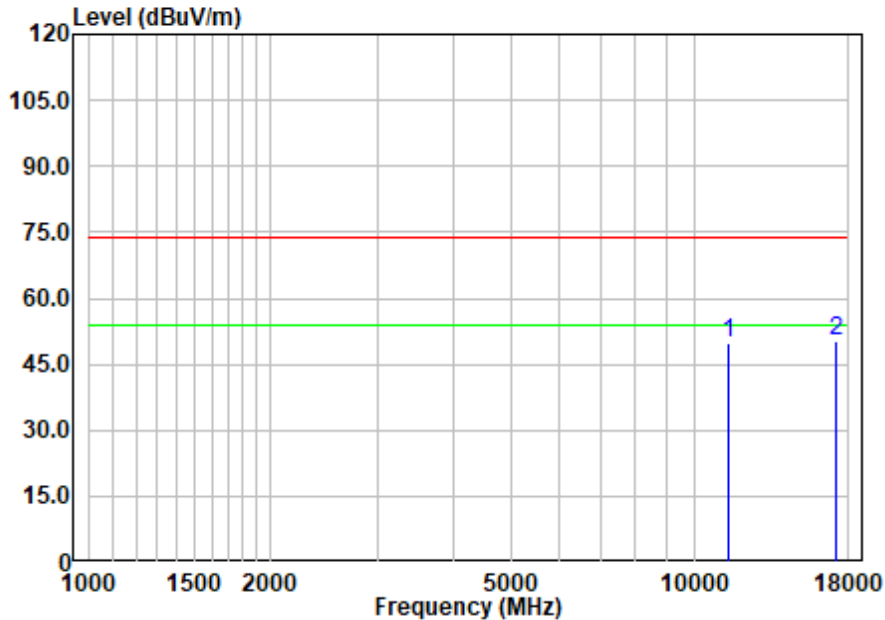
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 55 of 207

Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 11400.000 | 40.79      | 13.02      | 38.56      | 49.97       | 74.00      | -24.03 Peak |
| 2 | 17100.000 | 30.04      | 16.00      | 40.83      | 50.04       | 74.00      | -23.96 Peak |



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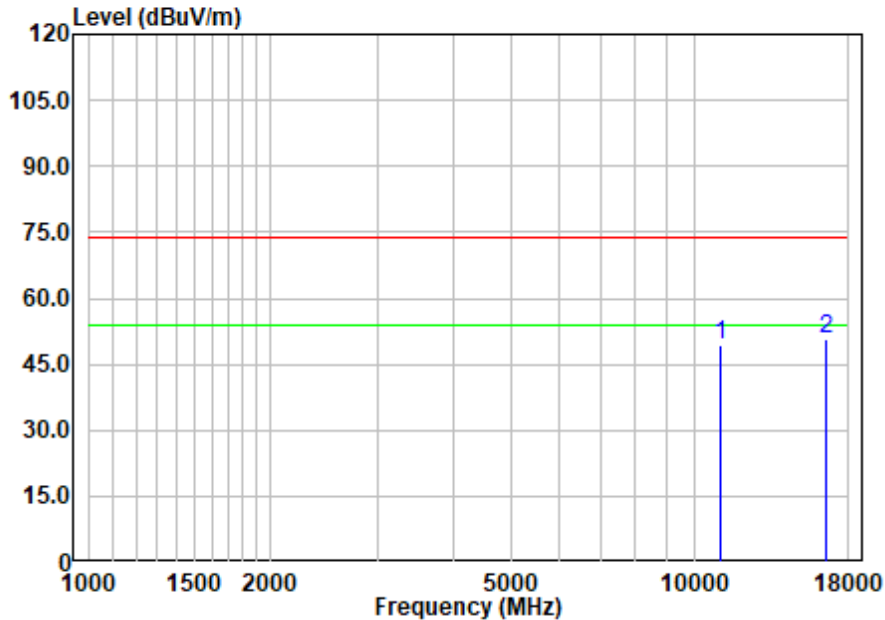
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 11020.000 | 41.40 | 12.78 | 38.19  | 49.49  | 74.00  | -24.51 | Peak   |
| 2 16530.000 | 33.11 | 15.45 | 40.60  | 50.93  | 74.00  | -23.07 | Peak   |



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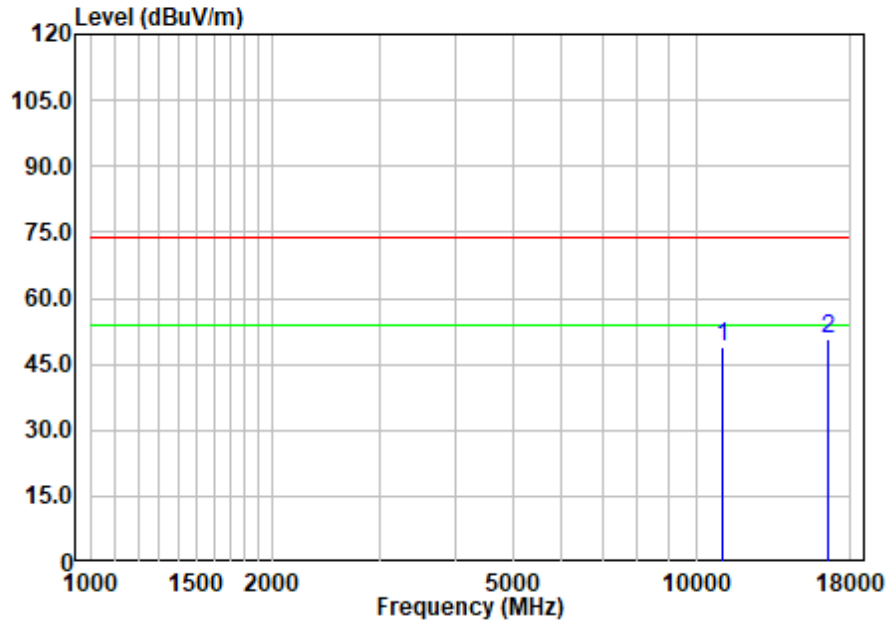
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 11020.000 | 40.94      | 12.78      | 38.19      | 49.03       | 74.00      | -24.97 Peak |
| 2 | 16530.000 | 33.03      | 15.45      | 40.60      | 50.85       | 74.00      | -23.15 Peak |



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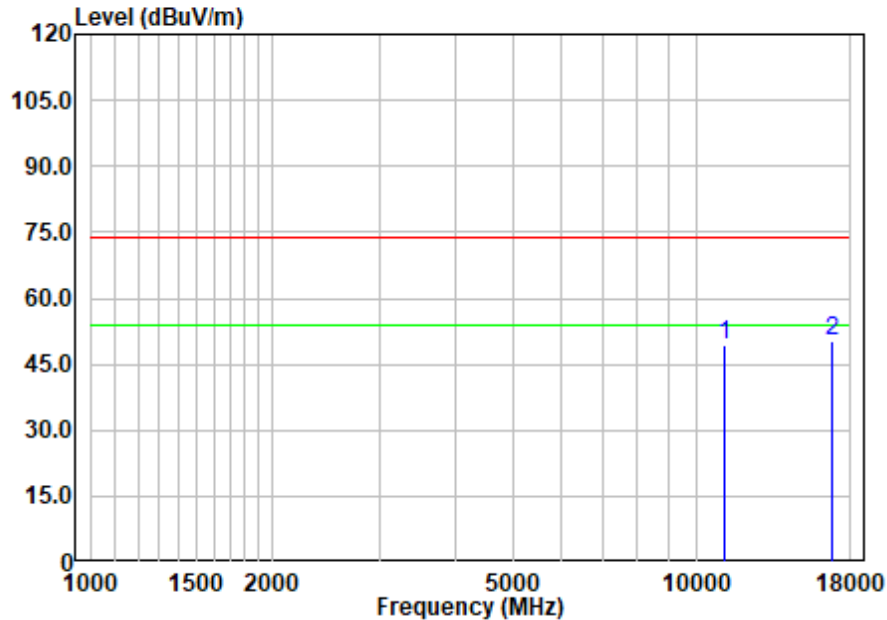
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: middle



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 11180.000 | 40.48      | 12.88      | 38.34      | 49.23       | 74.00      | -24.77 Peak |
| 2 | 16770.000 | 33.61      | 15.68      | 40.70      | 50.24       | 74.00      | -23.76 Peak |



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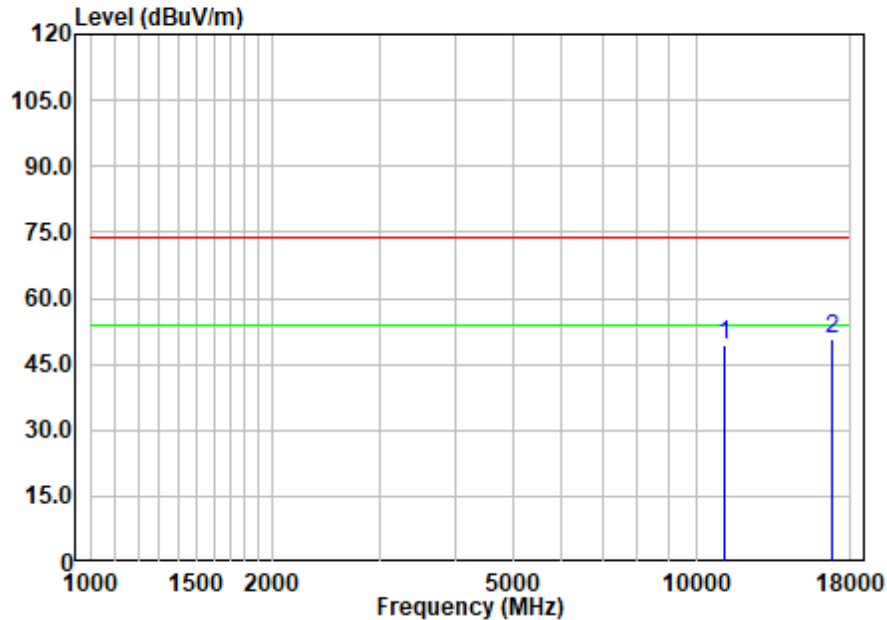
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: middle



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 11180.000 | 40.51      | 12.88      | 38.34      | 49.26       | 74.00      | -24.74 Peak |
| 2 | 16770.000 | 34.29      | 15.68      | 40.70      | 50.92       | 74.00      | -23.08 Peak |



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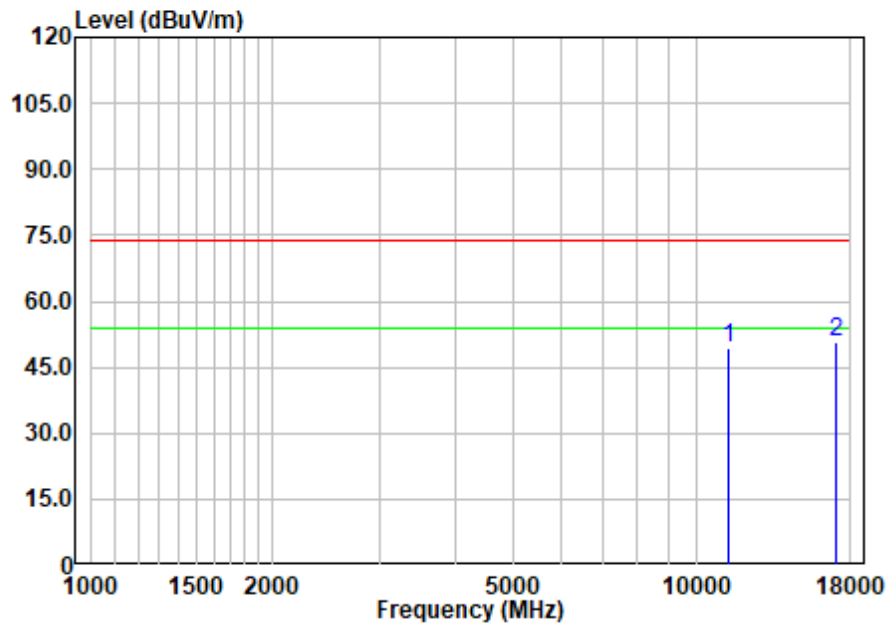
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 11340.000 | 40.07      | 12.98      | 38.50      | 49.32       | 74.00      | -24.68 Peak |
| 2 | 17010.000 | 31.92      | 15.91      | 40.80      | 50.57       | 74.00      | -23.43 Peak |



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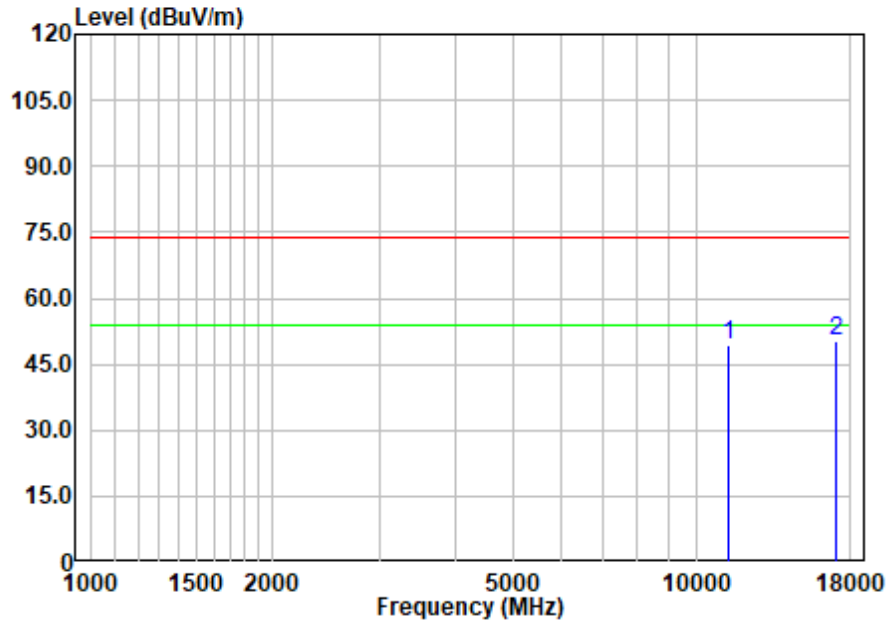
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 11340.000 | 40.16      | 12.98      | 38.50      | 49.41       | 74.00      | -24.59 Peak |
| 2 | 17010.000 | 31.59      | 15.91      | 40.80      | 50.24       | 74.00      | -23.76 Peak |



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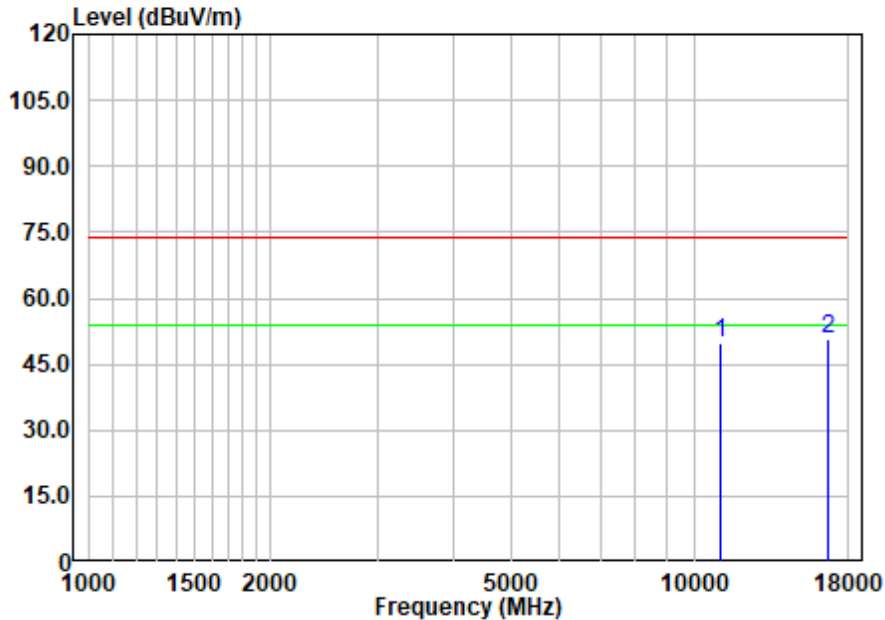
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 11060.000 | 41.28      | 12.80      | 38.23      | 49.70       | 74.00      | -24.30 Peak |
| 2 | 16590.000 | 33.00      | 15.51      | 40.63      | 50.90       | 74.00      | -23.10 Peak |



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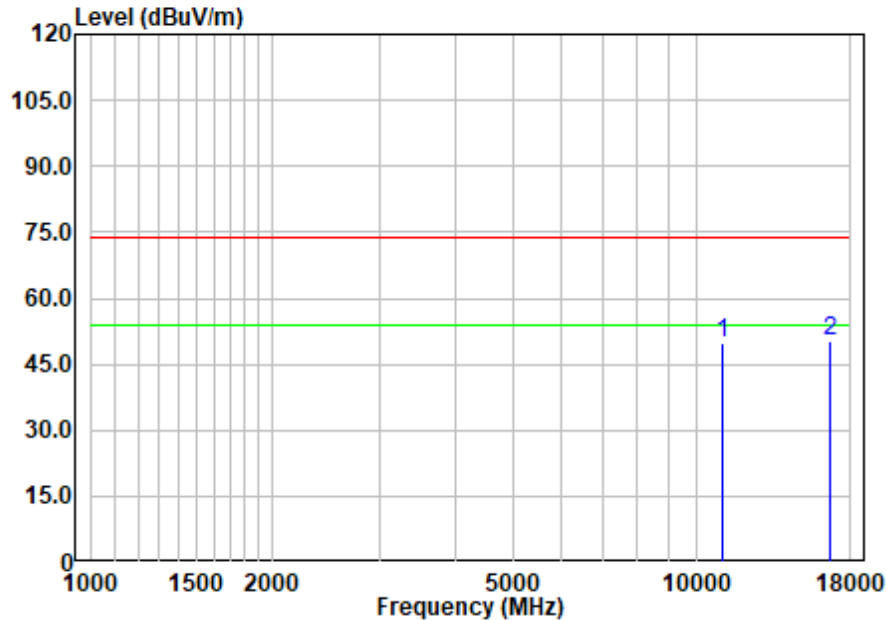
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 11060.000 | 41.19      | 12.80      | 38.23      | 49.61       | 74.00      | -24.39 Peak |
| 2 | 16590.000 | 32.57      | 15.51      | 40.63      | 50.47       | 74.00      | -23.53 Peak |



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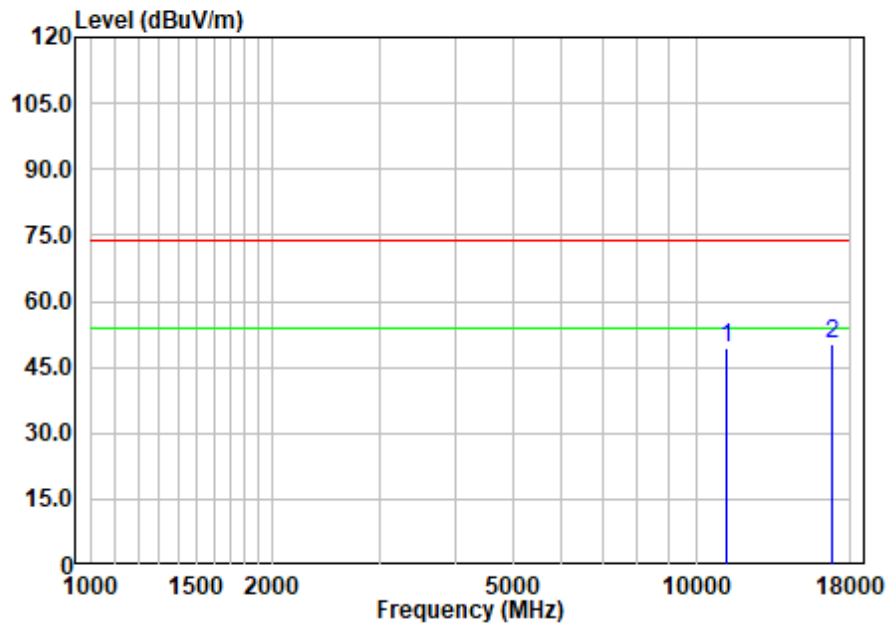
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 11220.000 | 40.43 | 12.91 | 38.38  | 49.29  | 74.00  | -24.71 | Peak   |
| 2 16830.000 | 33.68 | 15.74 | 40.72  | 50.11  | 74.00  | -23.89 | Peak   |



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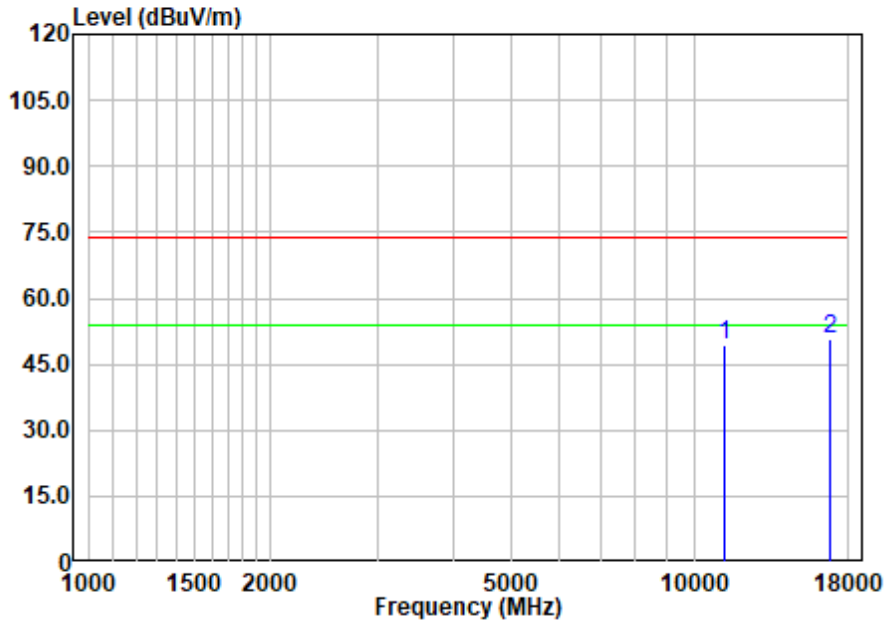
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 65 of 207

Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



|   | Freq      | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|-----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz       | dBuV       | dB         | dB/m       | dBuV/m      | dB         |             |
| 1 | 11220.000 | 40.56      | 12.91      | 38.38      | 49.42       | 74.00      | -24.58 Peak |
| 2 | 16830.000 | 34.11      | 15.74      | 40.72      | 50.54       | 74.00      | -23.46 Peak |



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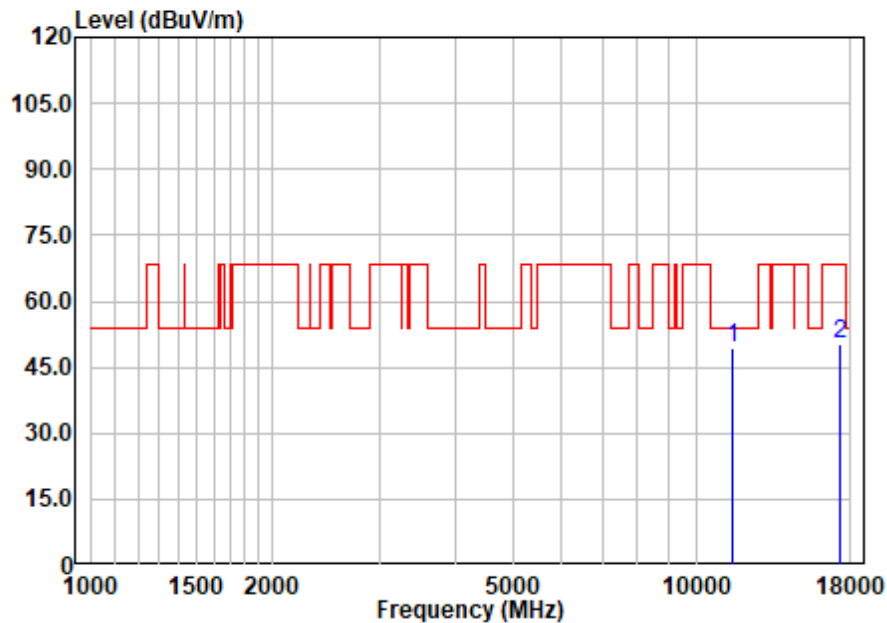
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 11490.000 | 39.98 | 13.08 | 38.65  | 49.55  | 54.00  | -4.45  | Peak   |
| 2 17235.000 | 30.65 | 16.12 | 40.88  | 50.11  | 68.30  | -18.19 | Peak   |



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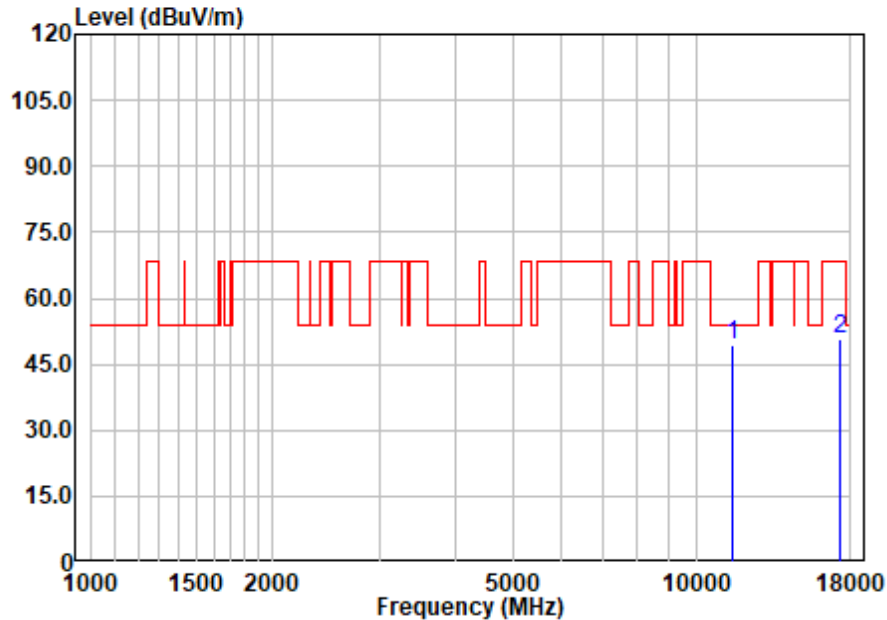
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 67 of 207

Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 11490.000 | 39.95 | 13.08 | 38.65  | 49.52  | 54.00  | -4.48  | Peak   |
| 2 17235.000 | 31.22 | 16.12 | 40.88  | 50.68  | 68.30  | -17.62 | Peak   |



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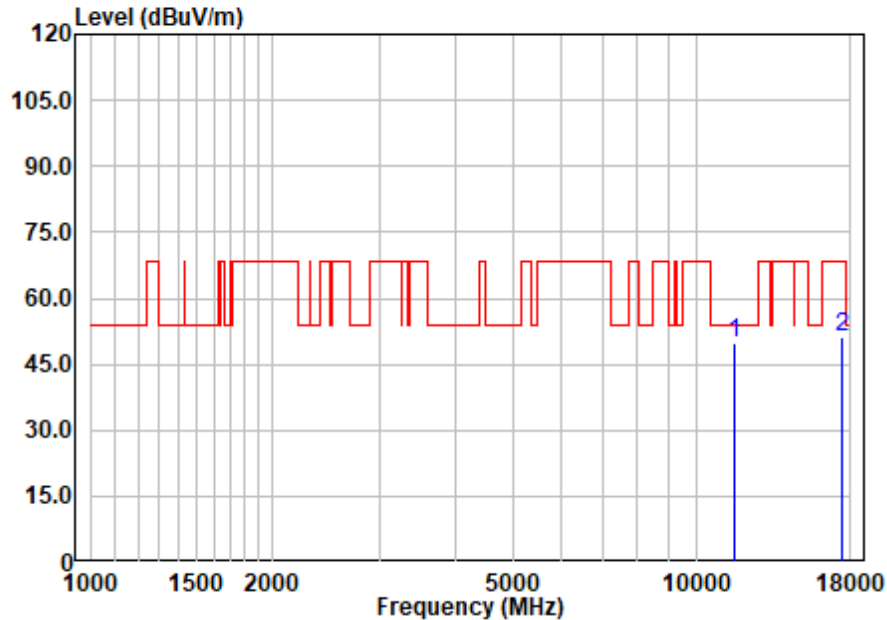
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 68 of 207

Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 11570.000 | 40.11 | 13.13 | 38.72  | 49.71  | 54.00  | -4.29  | Peak   |
| 2 17355.000 | 32.72 | 16.24 | 40.93  | 50.97  | 68.30  | -17.33 | Peak   |



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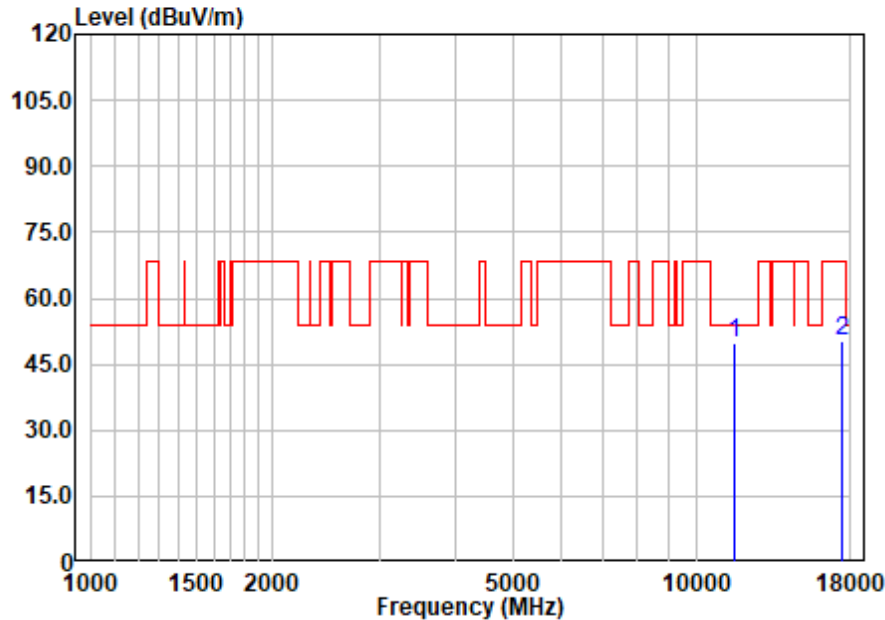
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 69 of 207

Test Mode: 03; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 11570.000 | 40.31 | 13.13 | 38.72  | 49.91  | 54.00  | -4.09  | Peak   |
| 2 17355.000 | 31.94 | 16.24 | 40.93  | 50.19  | 68.30  | -18.11 | Peak   |



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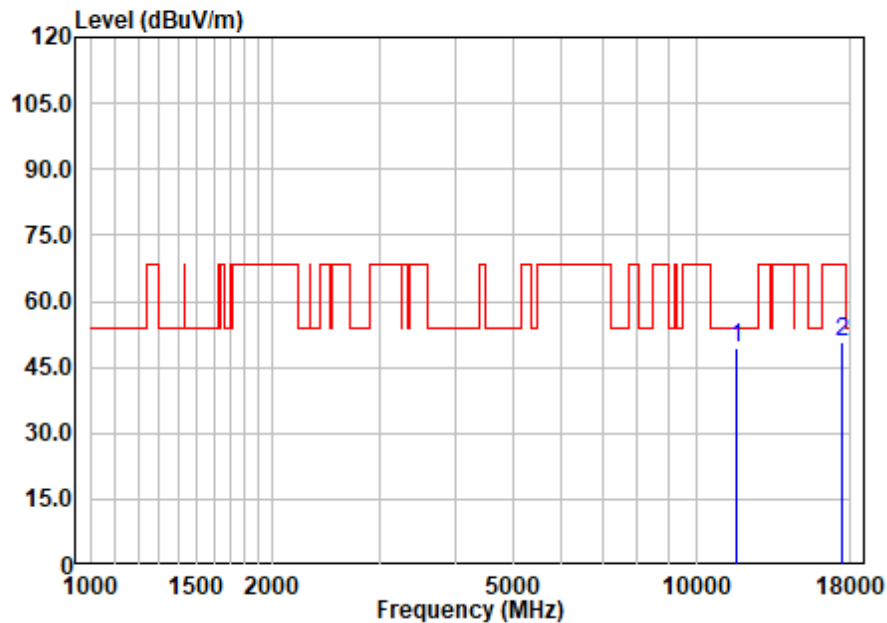
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 70 of 207

Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 11650.000 | 39.84 | 13.18 | 38.80  | 49.42  | 54.00  | -4.58  | Peak   |
| 2 17475.000 | 33.53 | 16.33 | 40.97  | 50.94  | 68.30  | -17.36 | Peak   |



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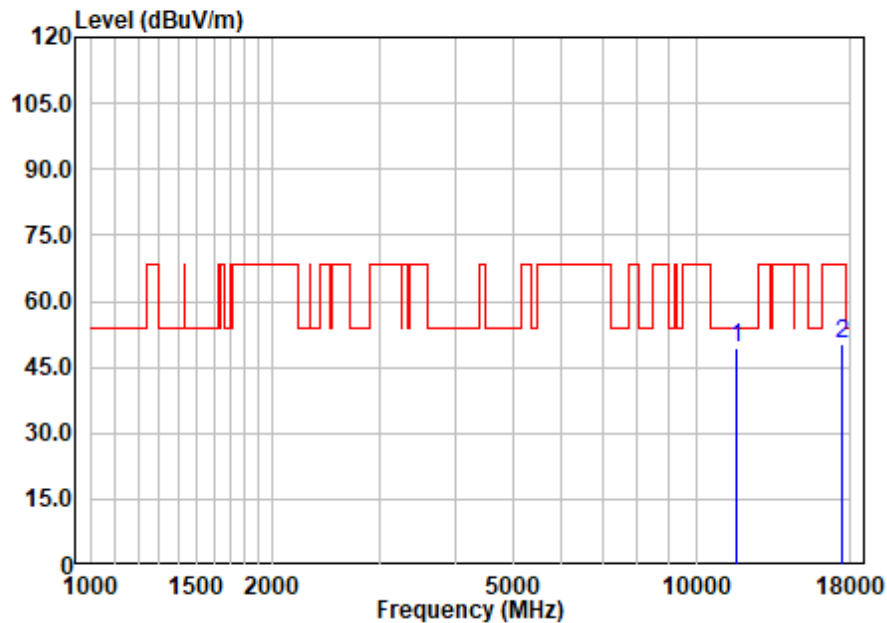
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 11650.000 | 39.74 | 13.18 | 38.80  | 49.32  | 54.00  | -4.68  | Peak   |
| 2 17475.000 | 33.04 | 16.33 | 40.97  | 50.45  | 68.30  | -17.85 | Peak   |



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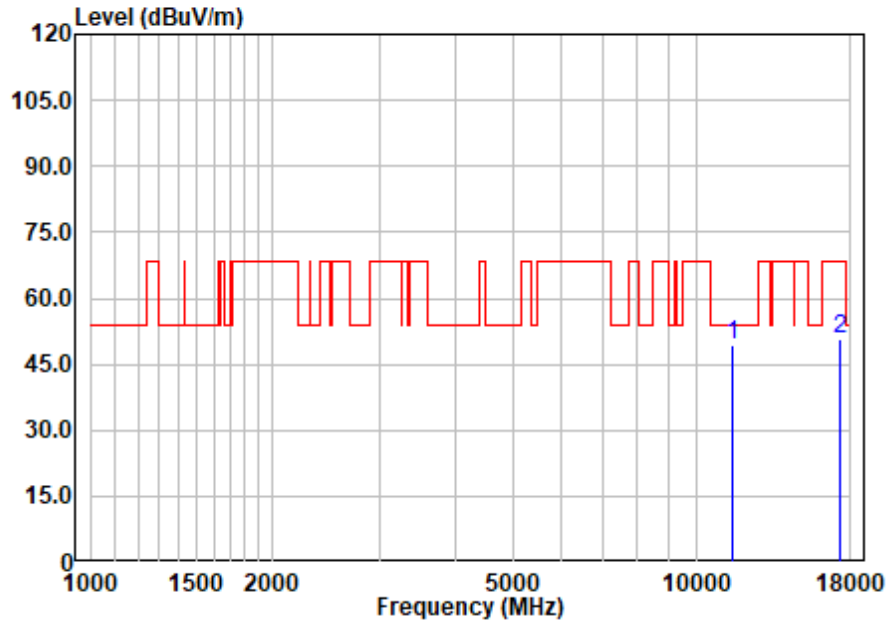
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 11510.000 | 39.95 | 13.09 | 38.66  | 49.55  | 54.00  | -4.45  | Peak   |
| 2 17265.000 | 31.46 | 16.15 | 40.90  | 50.78  | 68.30  | -17.52 | Peak   |



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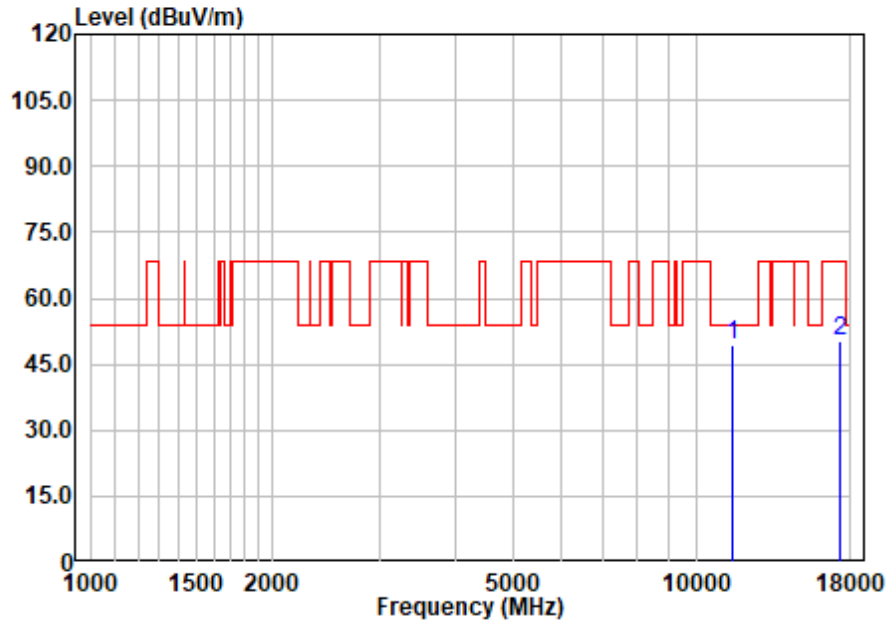
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 11510.000 | 39.60 | 13.09 | 38.66  | 49.20  | 54.00  | -4.80  | Peak   |
| 2 17265.000 | 30.86 | 16.15 | 40.90  | 50.18  | 68.30  | -18.12 | Peak   |



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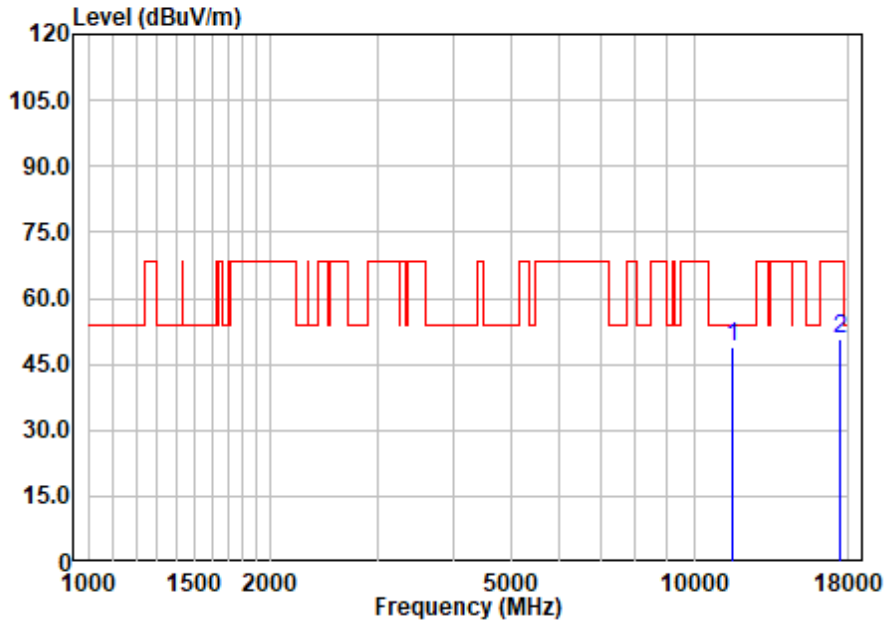
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## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 11590.000 | 39.43 | 13.14 | 38.74  | 49.03  | 54.00  | -4.97  | Peak   |
| 2 17385.000 | 32.73 | 16.27 | 40.94  | 50.50  | 68.30  | -17.80 | Peak   |



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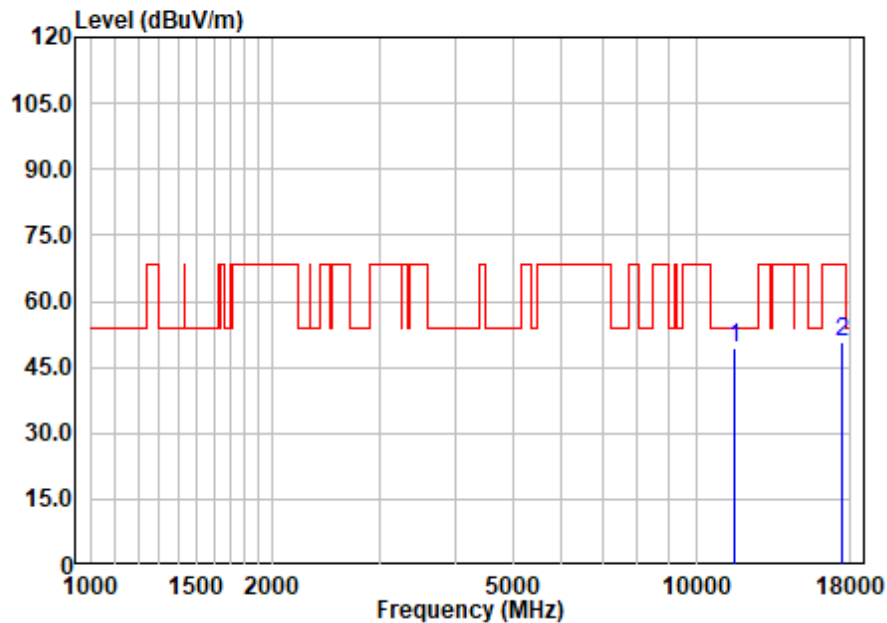
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 11590.000 | 39.83 | 13.14 | 38.74  | 49.43  | 54.00  | -4.57  | Peak   |
| 2 17385.000 | 32.80 | 16.27 | 40.94  | 50.57  | 68.30  | -17.73 | Peak   |



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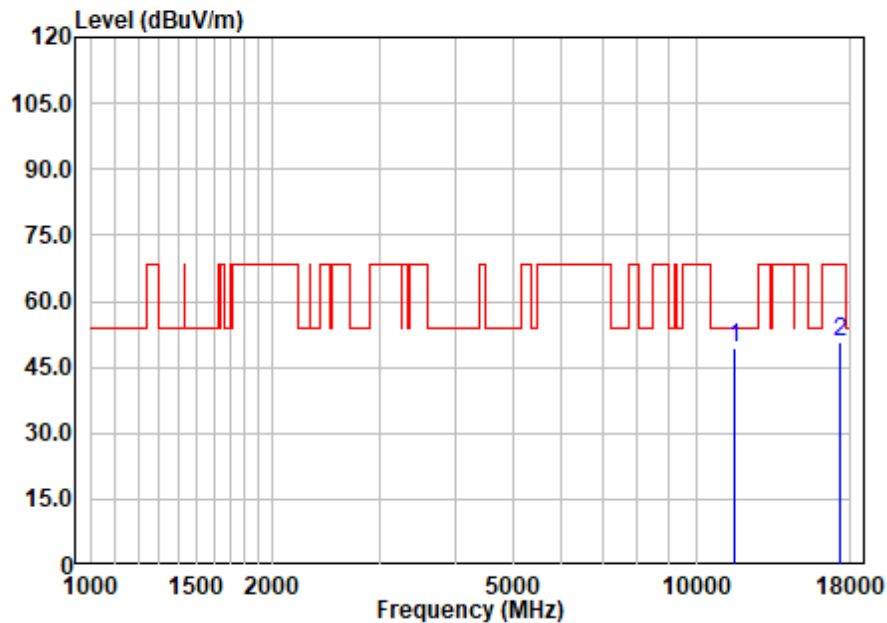
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 11550.000 | 39.76 | 13.12 | 38.70  | 49.36  | 54.00  | -4.64  | Peak   |
| 2 17325.000 | 31.87 | 16.21 | 40.92  | 50.60  | 68.30  | -17.70 | Peak   |



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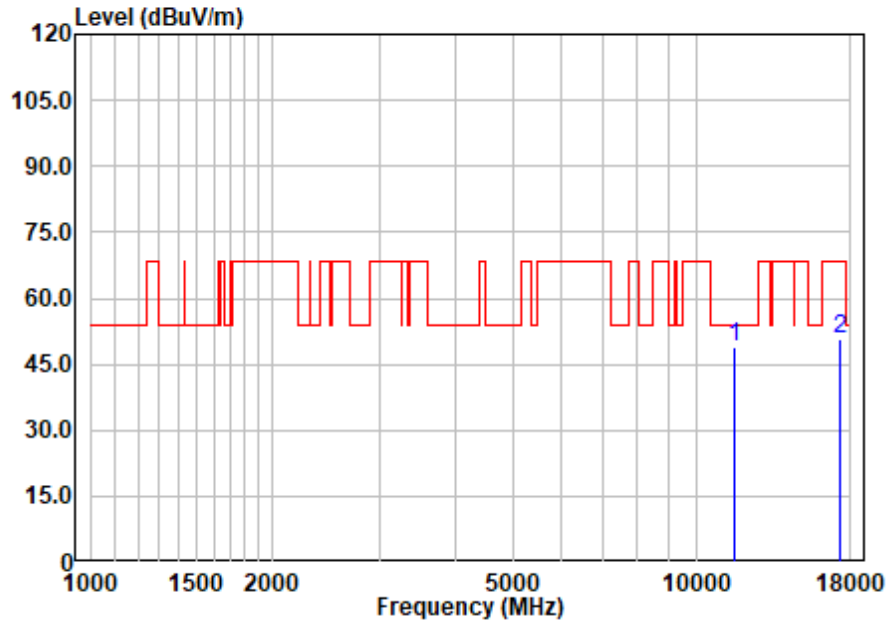
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



|             | Read  | Cable | Ant    |        | Limit  | Over   |        |
|-------------|-------|-------|--------|--------|--------|--------|--------|
| Freq        | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz         | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 11550.000 | 39.43 | 13.12 | 38.70  | 49.03  | 54.00  | -4.97  | Peak   |
| 2 17325.000 | 31.92 | 16.21 | 40.92  | 50.65  | 68.30  | -17.65 | Peak   |



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### 7.8 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490    | 2400/F(kHz)                      | 300                          |
| 0.490-1.705    | 24000/F(kHz)                     | 30                           |
| 1.705-30.0     | 30                               | 30                           |
| 30-88          | 100                              | 3                            |
| 88-216         | 150                              | 3                            |
| 216-960        | 200                              | 3                            |
| Above 960      | 500                              | 3                            |

\*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



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## Compliance Certification Services (Kunshan) Inc.

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### 7.8.1 E.U.T. Operation

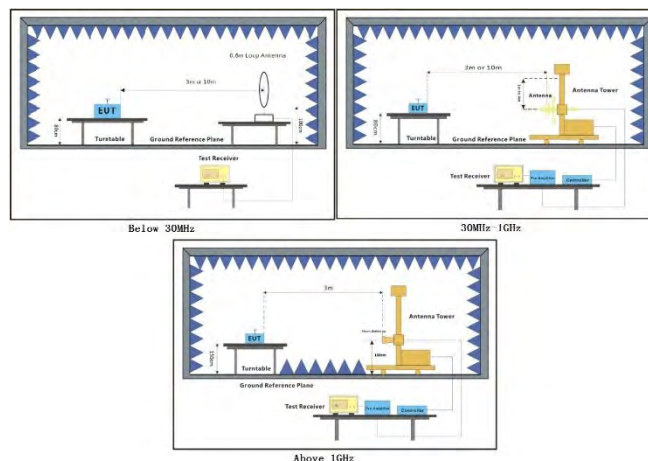
Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

### 7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |
|                       | 01        | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
|                       | 02        | TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
|                       | 03        | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |

### 7.8.3 Test Setup Diagram



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### 7.8.4 Measurement Procedure and Data

- a. 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.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. 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.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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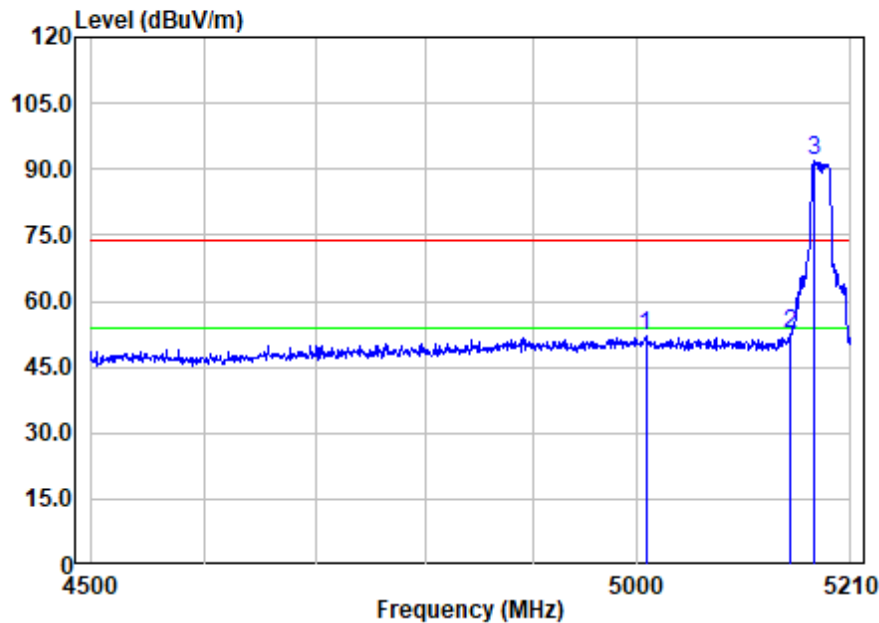
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## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00 Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



|            | Read  | Cable | Ant    |        | Limit  | Over   |        |
|------------|-------|-------|--------|--------|--------|--------|--------|
| Freq       | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz        | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 5008.360 | 52.69 | 8.24  | 32.62  | 52.02  | 74.00  | -21.98 | Peak   |
| 2 5150.000 | 53.85 | 8.39  | 32.61  | 52.61  | 74.00  | -21.39 | Peak   |
| 3 5173.790 | 93.27 | 8.42  | 32.59  | 91.90  | 74.00  | 17.90  | Peak   |



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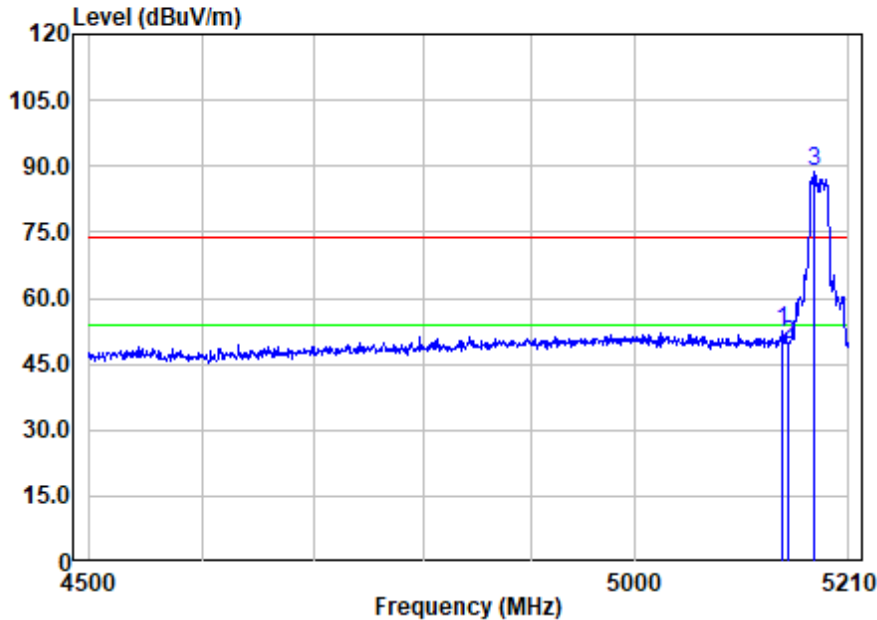
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## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00 Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



|            | Read  | Cable | Ant    |        | Limit  | Over   |        |
|------------|-------|-------|--------|--------|--------|--------|--------|
| Freq       | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz        | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 5144.680 | 53.90 | 8.38  | 32.61  | 52.69  | 74.00  | -21.31 | Peak   |
| 2 5150.000 | 50.74 | 8.39  | 32.61  | 49.50  | 74.00  | -24.50 | Peak   |
| 3 5175.210 | 90.14 | 8.42  | 32.59  | 88.76  | 74.00  | 14.76  | Peak   |



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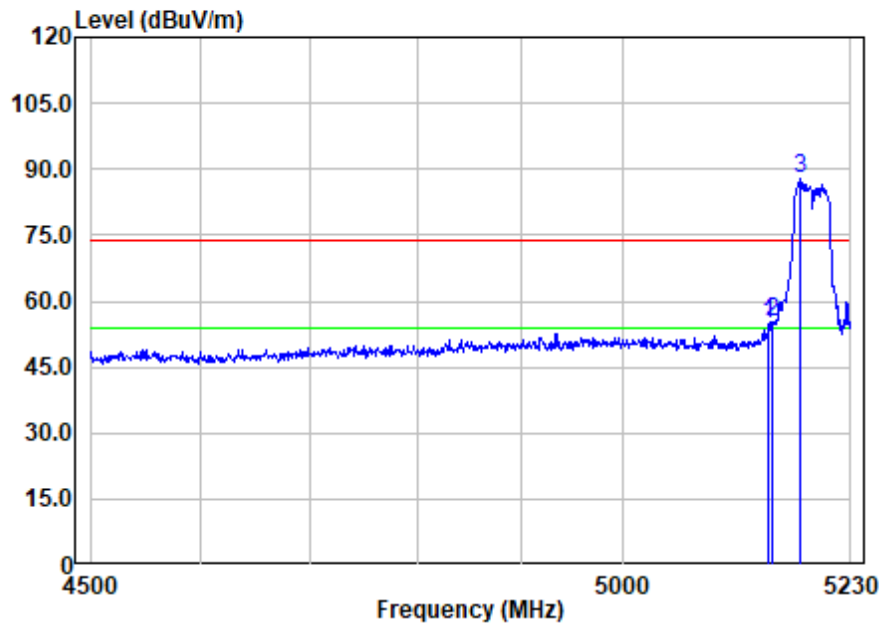
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Test Mode: 00 Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



|   | Freq     | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m      | dBuV/m     | dB          |
| 1 | 5145.320 | 56.20      | 8.39       | 32.61      | 54.99       | 74.00      | -19.01 Peak |
| 2 | 5150.000 | 56.50      | 8.39       | 32.61      | 55.26       | 74.00      | -18.74 Peak |
| 3 | 5178.900 | 89.02      | 8.43       | 32.59      | 87.63       | 74.00      | 13.63 Peak  |



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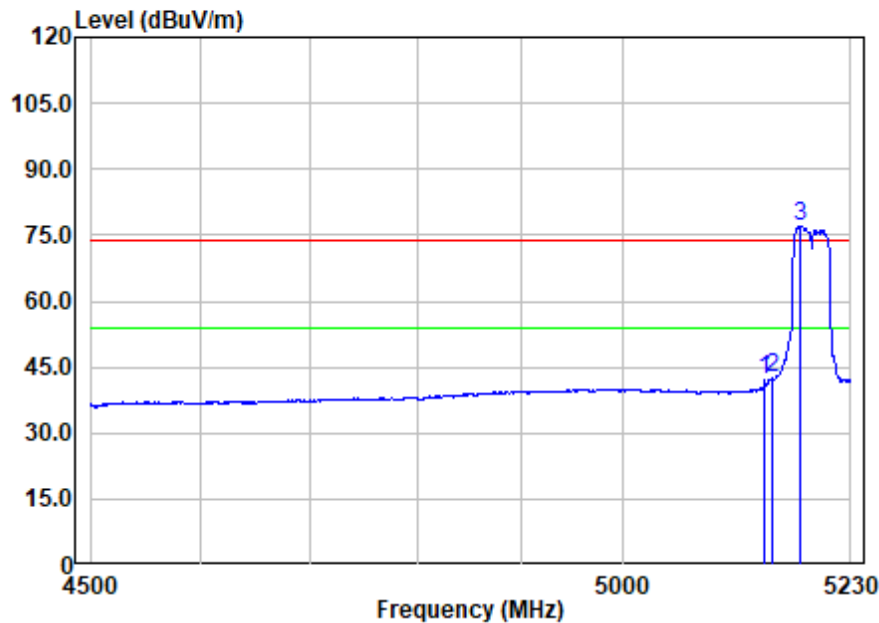
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 00 Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



|   | Freq     | Read Level | Cable Loss | Ant Factor | Level  | Limit Line | Over Limit | Remark  |
|---|----------|------------|------------|------------|--------|------------|------------|---------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m | dBuV/m     | dB         |         |
| 1 | 5141.670 | 43.11      | 8.38       | 32.62      | 41.93  | 54.00      | -12.07     | Average |
| 2 | 5150.000 | 43.62      | 8.39       | 32.61      | 42.38  | 54.00      | -11.62     | Average |
| 3 | 5178.170 | 78.51      | 8.43       | 32.59      | 77.12  | 54.00      | 23.12      | Average |



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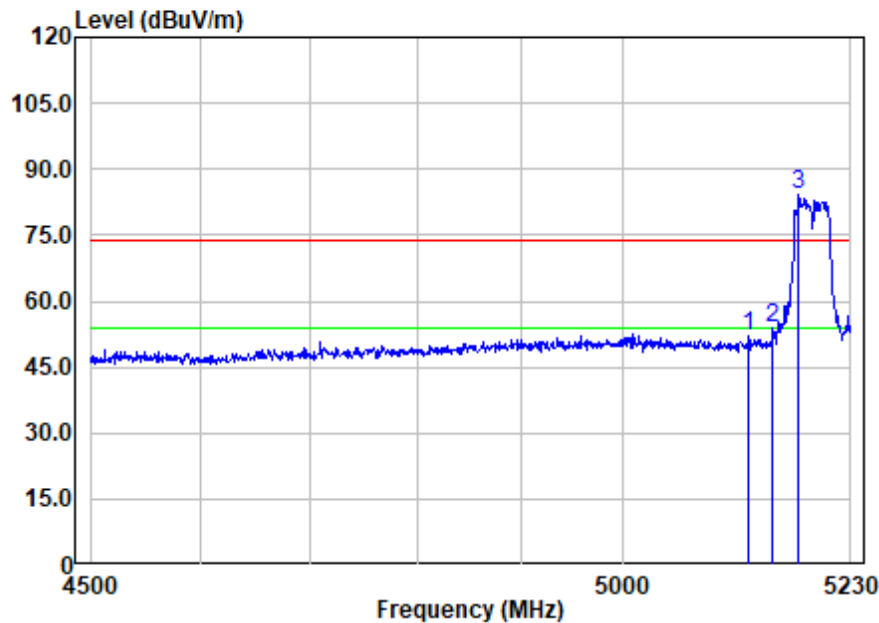
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 00 Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



|   | Freq     | Read Level | Cable Loss | Ant Factor | Level  | Limit  | Over Limit | Remark |
|---|----------|------------|------------|------------|--------|--------|------------|--------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m | dBuV/m | dB         |        |
| 1 | 5125.610 | 53.34      | 8.36       | 32.63      | 52.24  | 74.00  | -21.76     | Peak   |
| 2 | 5150.000 | 55.05      | 8.39       | 32.61      | 53.81  | 74.00  | -20.19     | Peak   |
| 3 | 5176.710 | 85.76      | 8.42       | 32.59      | 84.37  | 74.00  | 10.37      | Peak   |



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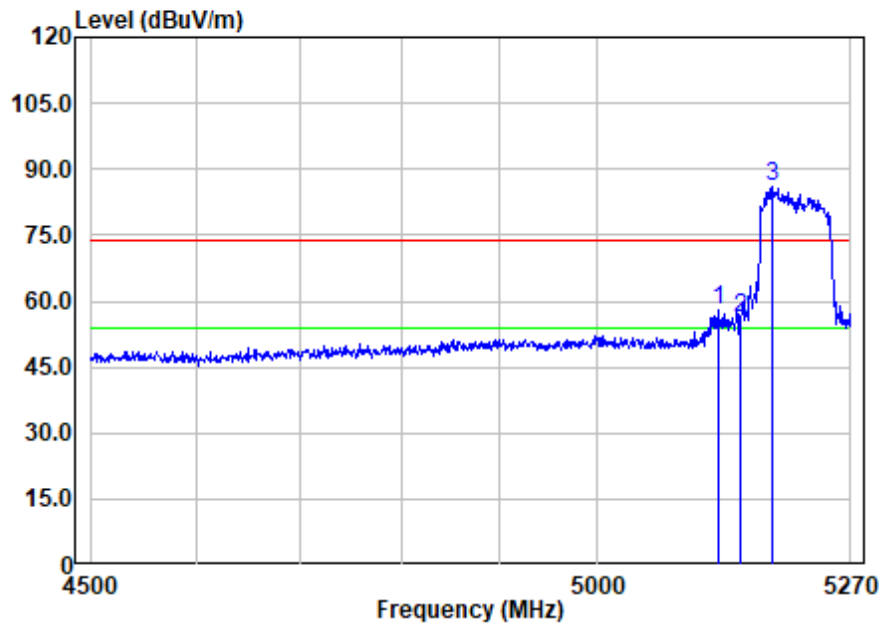
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## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00 Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



|   | Freq     | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark |
|---|----------|------------|------------|------------|-------------|------------|--------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m      | dB         |        |
| 1 | 5126.780 | 58.94      | 8.36       | 32.63      | 57.84       | -16.16     | Peak   |
| 2 | 5150.000 | 57.22      | 8.39       | 32.61      | 55.98       | -18.02     | Peak   |
| 3 | 5184.530 | 87.32      | 8.43       | 32.58      | 85.88       | 11.88      | Peak   |



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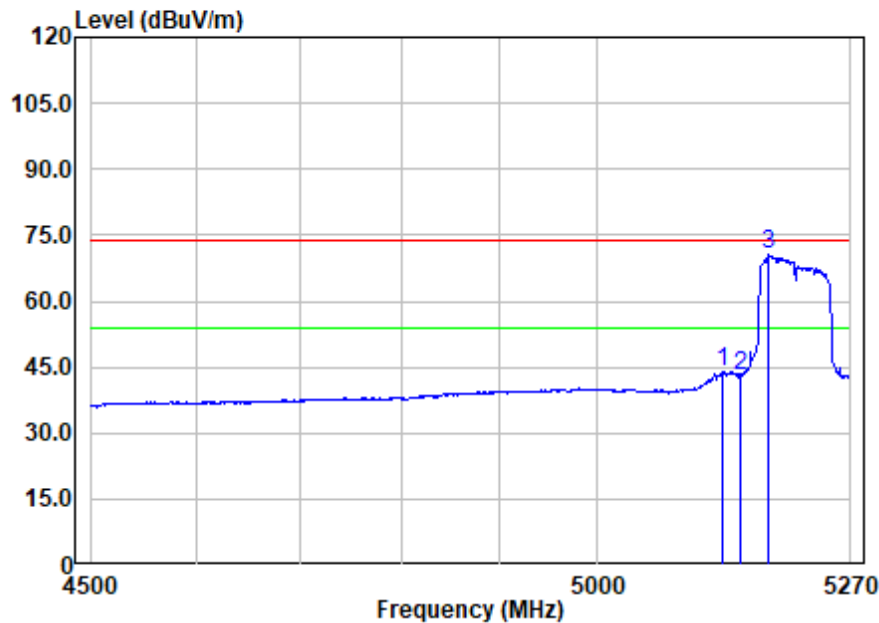
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## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00 Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



|            | Read  | Cable | Ant    |        | Limit  | Over   |         |
|------------|-------|-------|--------|--------|--------|--------|---------|
| Freq       | Level | Loss  | Factor | Level  | Line   | Limit  | Remark  |
| MHz        | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |         |
| 1 5132.170 | 45.24 | 8.37  | 32.62  | 44.10  | 54.00  | -9.90  | Average |
| 2 5150.000 | 44.30 | 8.39  | 32.61  | 43.06  | 54.00  | -10.94 | Average |
| 3 5181.450 | 71.90 | 8.43  | 32.58  | 70.48  | 54.00  | 16.48  | Average |



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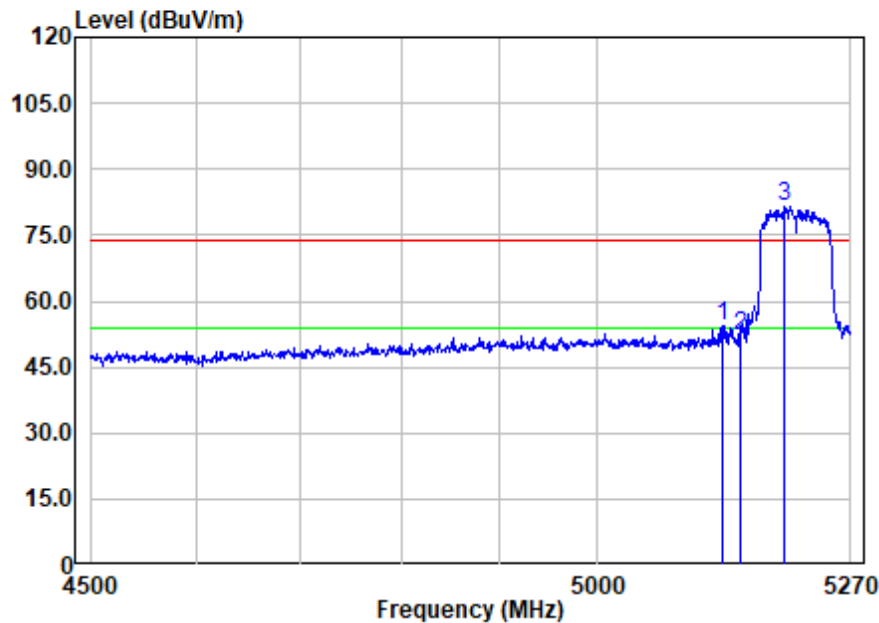
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## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00 Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



|   | Freq     | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark |
|---|----------|------------|------------|------------|-------------|------------|--------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m      | dB         |        |
| 1 | 5132.170 | 55.51      | 8.37       | 32.62      | 54.37       | -19.63     | Peak   |
| 2 | 5150.000 | 53.45      | 8.39       | 32.61      | 52.21       | -21.79     | Peak   |
| 3 | 5198.390 | 83.17      | 8.45       | 32.57      | 81.66       | 7.66       | Peak   |



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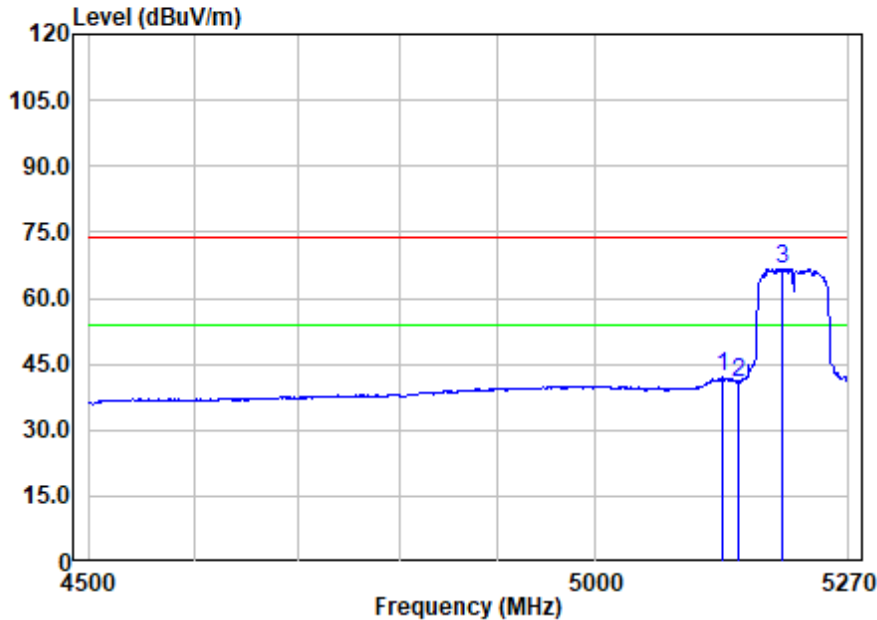
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## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00 Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



|   | Freq     | Read Level | Cable Loss | Ant Factor | Level  | Limit  | Over Limit | Remark  |
|---|----------|------------|------------|------------|--------|--------|------------|---------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m | dBuV/m | dB         |         |
| 1 | 5133.710 | 43.15      | 8.37       | 32.62      | 42.00  | 54.00  | -12.00     | Average |
| 2 | 5150.000 | 42.14      | 8.39       | 32.61      | 40.90  | 54.00  | -13.10     | Average |
| 3 | 5197.620 | 68.16      | 8.45       | 32.57      | 66.65  | 54.00  | 12.65      | Average |



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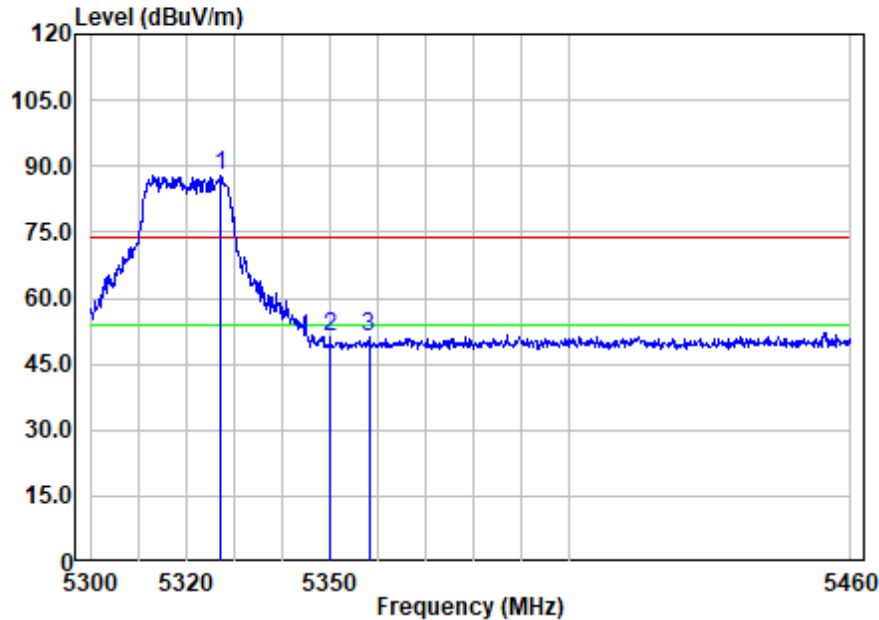
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 01Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



|            | Read  | Cable | Ant    |        | Limit  | Over   |        |
|------------|-------|-------|--------|--------|--------|--------|--------|
| Freq       | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz        | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 5326.880 | 89.19 | 8.61  | 32.53  | 87.97  | 74.00  | 13.97  | Peak   |
| 2 5350.000 | 52.32 | 8.64  | 32.52  | 51.24  | 74.00  | -22.76 | Peak   |
| 3 5358.080 | 52.41 | 8.65  | 32.52  | 51.39  | 74.00  | -22.61 | Peak   |



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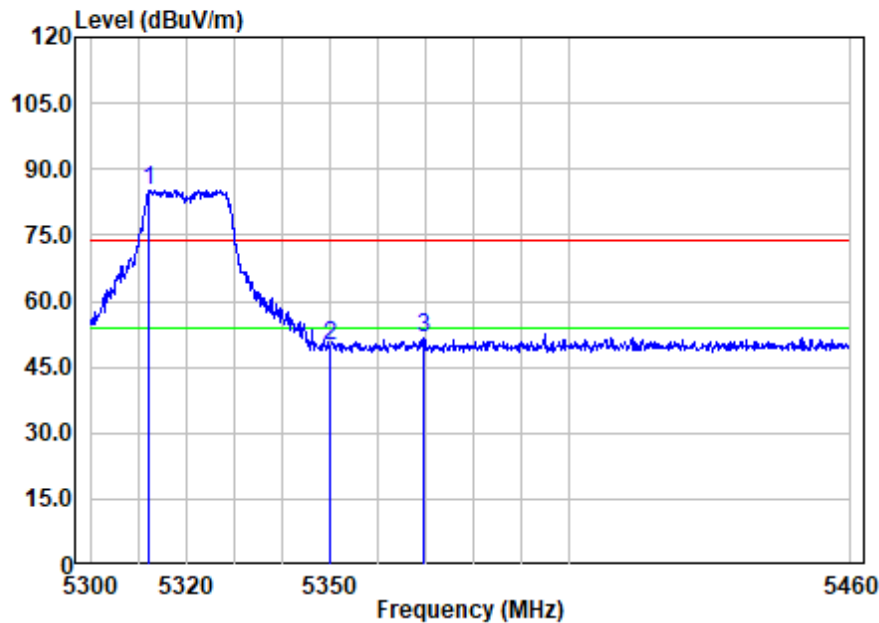
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



|            | Read  | Cable | Ant    |        | Limit  | Over   |        |
|------------|-------|-------|--------|--------|--------|--------|--------|
| Freq       | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz        | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 5312.000 | 86.59 | 8.60  | 32.54  | 85.29  | 74.00  | 11.29  | Peak   |
| 2 5350.000 | 50.82 | 8.64  | 32.52  | 49.74  | 74.00  | -24.26 | Peak   |
| 3 5369.760 | 52.40 | 8.67  | 32.51  | 51.45  | 74.00  | -22.55 | Peak   |



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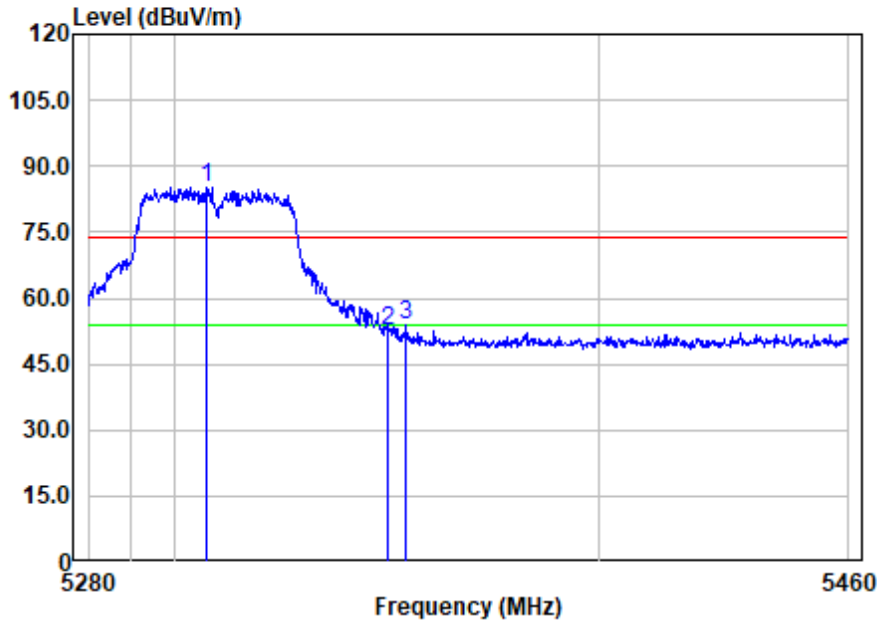
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



|   | Freq     | Read Level | Cable Loss | Ant Factor | Level  | Limit Line | Over Limit | Remark |
|---|----------|------------|------------|------------|--------|------------|------------|--------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 5307.720 | 86.58      | 8.59       | 32.54      | 85.25  | 74.00      | 11.25      | Peak   |
| 2 | 5350.000 | 53.80      | 8.64       | 32.52      | 52.72  | 74.00      | -21.28     | Peak   |
| 3 | 5354.520 | 54.90      | 8.65       | 32.52      | 53.86  | 74.00      | -20.14     | Peak   |



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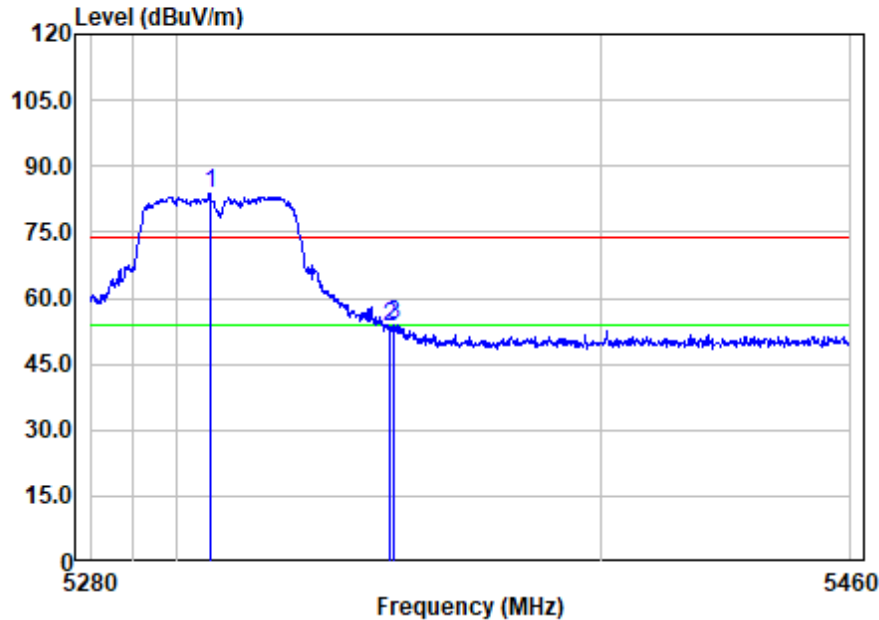
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 93 of 207

Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



|            | Read  | Cable | Ant    |        | Limit  | Over   |        |
|------------|-------|-------|--------|--------|--------|--------|--------|
| Freq       | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz        | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 5308.080 | 85.00 | 8.59  | 32.54  | 83.67  | 74.00  | 9.67   | Peak   |
| 2 5350.000 | 54.65 | 8.64  | 32.52  | 53.57  | 74.00  | -20.43 | Peak   |
| 3 5351.100 | 54.93 | 8.65  | 32.52  | 53.87  | 74.00  | -20.13 | Peak   |



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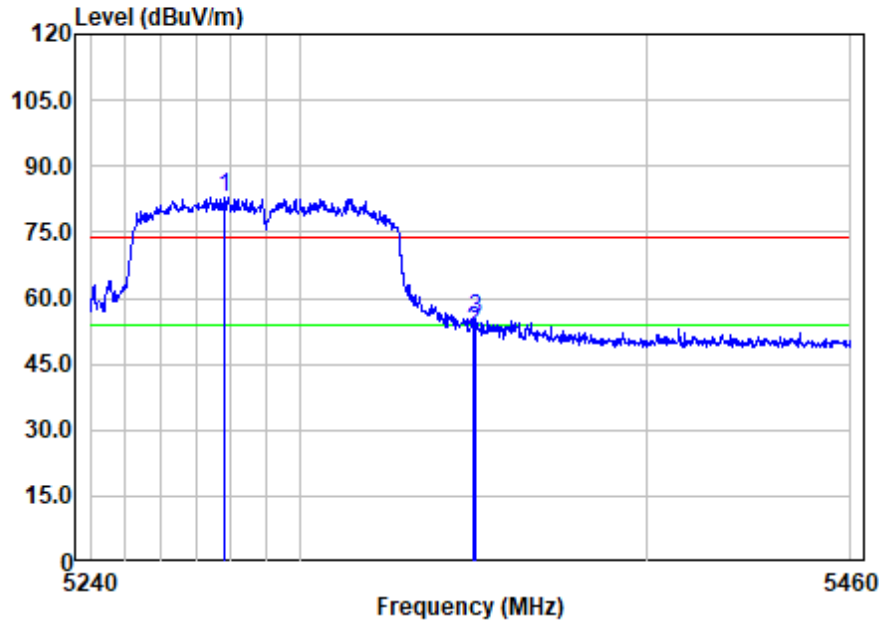
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 94 of 207

Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



|   | Freq     | Read Level | Cable Loss | Ant Factor | Level  | Limit Line | Over Limit | Remark |
|---|----------|------------|------------|------------|--------|------------|------------|--------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 5278.060 | 84.35      | 8.55       | 32.55      | 82.94  | 74.00      | 8.94       | Peak   |
| 2 | 5350.000 | 53.57      | 8.64       | 32.52      | 52.49  | 74.00      | -21.51     | Peak   |
| 3 | 5350.440 | 56.23      | 8.64       | 32.52      | 55.16  | 74.00      | -18.84     | Peak   |



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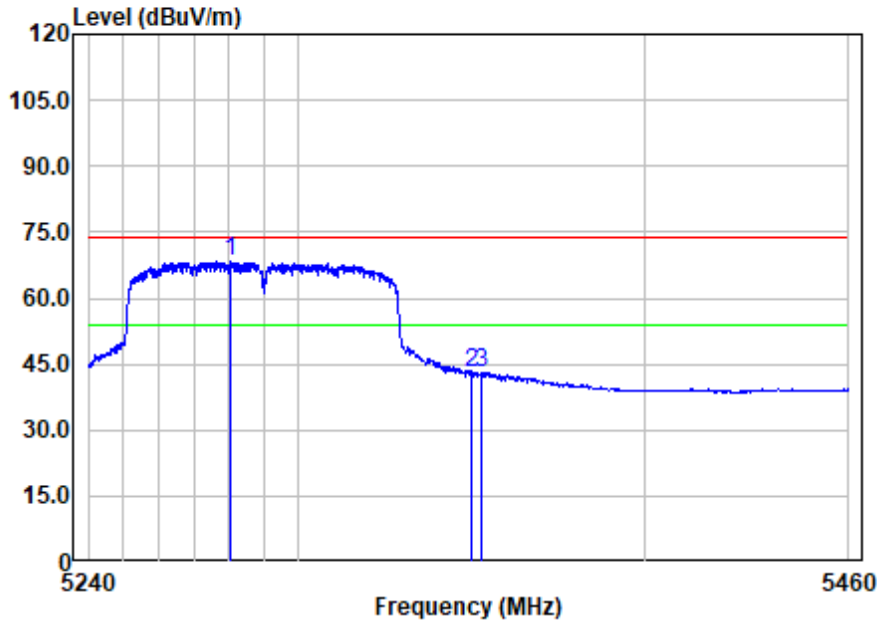
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: High



|            | Read  | Cable | Ant    |        | Limit  | Over   |         |
|------------|-------|-------|--------|--------|--------|--------|---------|
| Freq       | Level | Loss  | Factor | Level  | Line   | Limit  | Remark  |
| MHz        | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |         |
| 1 5280.700 | 69.56 | 8.56  | 32.55  | 68.16  | 54.00  | 14.16  | Average |
| 2 5350.000 | 44.09 | 8.64  | 32.52  | 43.01  | 54.00  | -10.99 | Average |
| 3 5352.860 | 44.18 | 8.65  | 32.52  | 43.13  | 54.00  | -10.87 | Average |



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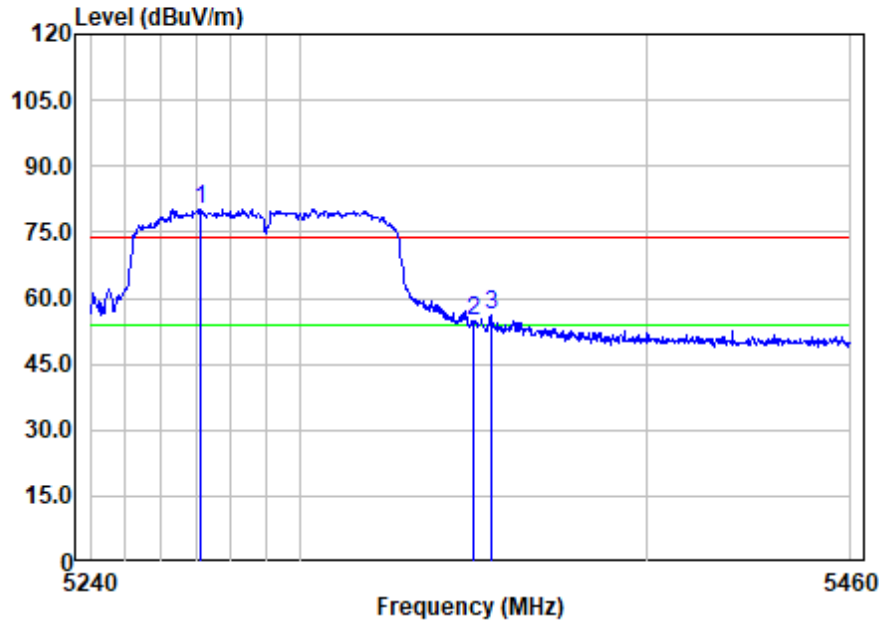
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



|   | Freq     | Read Level | Cable Loss | Ant Factor | Level  | Limit Line | Over Limit | Remark |
|---|----------|------------|------------|------------|--------|------------|------------|--------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 5271.460 | 81.72      | 8.54       | 32.55      | 80.30  | 74.00      | 6.30       | Peak   |
| 2 | 5350.000 | 55.73      | 8.64       | 32.52      | 54.65  | 74.00      | -19.35     | Peak   |
| 3 | 5354.840 | 57.40      | 8.65       | 32.52      | 56.36  | 74.00      | -17.64     | Peak   |



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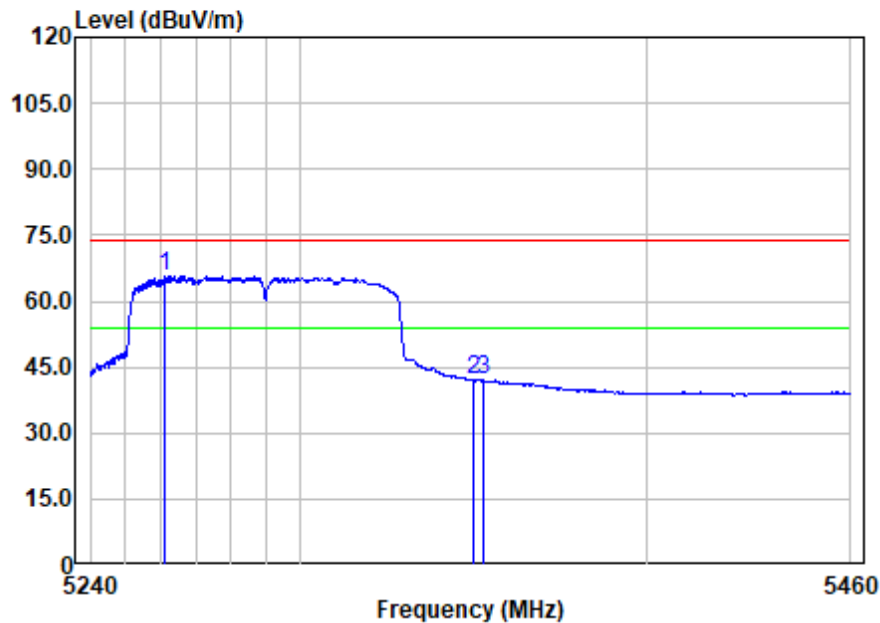
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



|   | Freq     | Read Level | Cable Loss | Ant Factor | Level  | Limit Line | Over Limit | Remark  |
|---|----------|------------|------------|------------|--------|------------|------------|---------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m | dBuV/m     | dB         |         |
| 1 | 5261.340 | 67.27      | 8.53       | 32.55      | 65.83  | 54.00      | 11.83      | Average |
| 2 | 5350.000 | 43.16      | 8.64       | 32.52      | 42.08  | 54.00      | -11.92     | Average |
| 3 | 5352.420 | 43.17      | 8.65       | 32.52      | 42.12  | 54.00      | -11.88     | Average |



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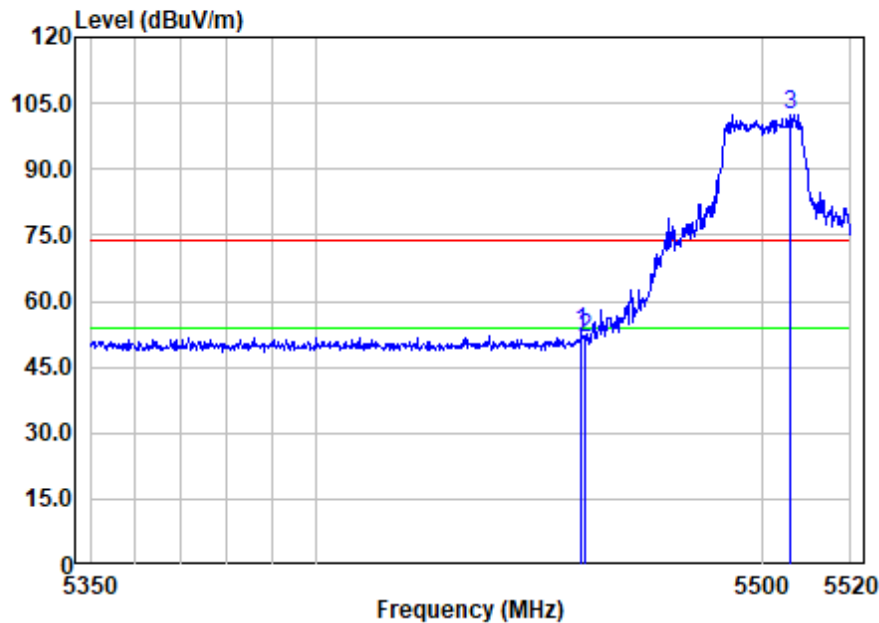
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



|   |          | Read   | Cable | Ant    |        | Limit  | Over   |        |
|---|----------|--------|-------|--------|--------|--------|--------|--------|
|   | Freq     | Level  | Loss  | Factor | Level  | Line   | Limit  | Remark |
|   | MHz      | dBuV   | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 | 5459.310 | 53.39  | 8.78  | 32.51  | 52.88  | 74.00  | -21.12 | Peak   |
| 2 | 5460.000 | 52.19  | 8.78  | 32.51  | 51.68  | 74.00  | -22.32 | Peak   |
| 3 | 5506.400 | 102.84 | 8.84  | 32.53  | 102.55 | 74.00  | 28.55  | Peak   |



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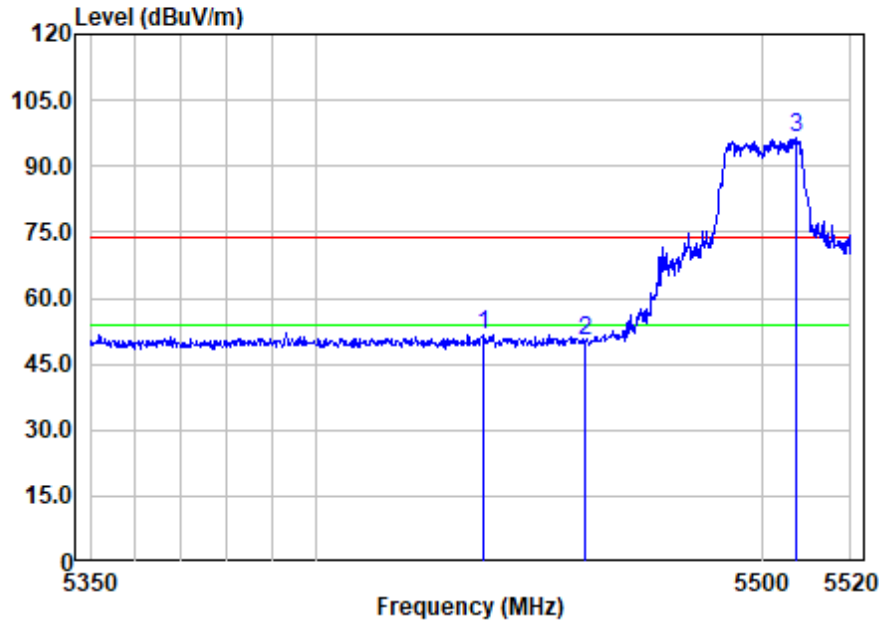
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



|   | Freq     | Read Level | Cable Loss | Ant Factor | Level  | Limit Line | Over Limit | Remark |
|---|----------|------------|------------|------------|--------|------------|------------|--------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 5437.380 | 52.31      | 8.75       | 32.51      | 51.71  | 74.00      | -22.29     | Peak   |
| 2 | 5460.000 | 50.86      | 8.78       | 32.51      | 50.35  | 74.00      | -23.65     | Peak   |
| 3 | 5507.760 | 96.84      | 8.84       | 32.53      | 96.55  | 74.00      | 22.55      | Peak   |



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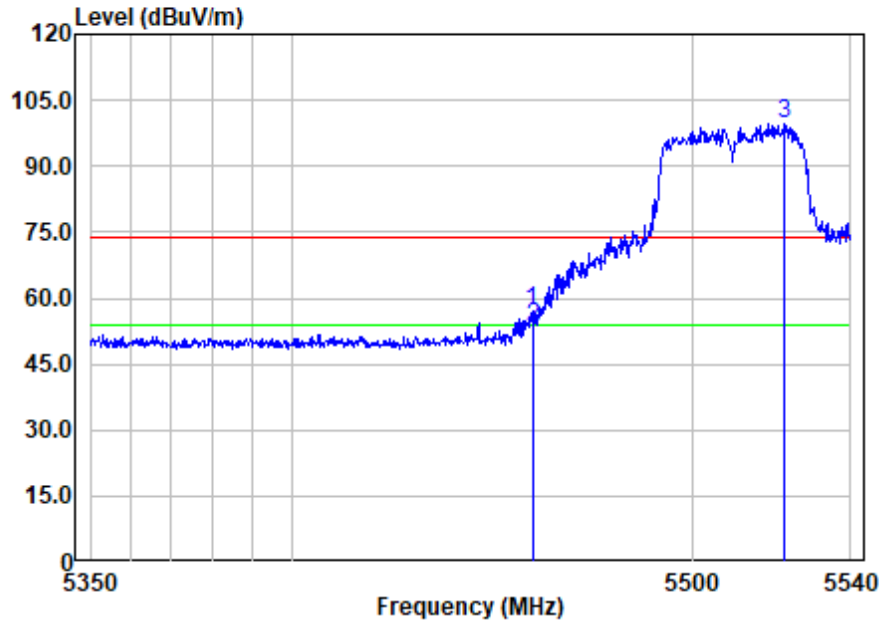
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



|            | Read   | Cable | Ant    |        | Limit  | Over   |        |
|------------|--------|-------|--------|--------|--------|--------|--------|
| Freq       | Level  | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz        | dBuV   | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 5459.630 | 57.58  | 8.78  | 32.51  | 57.07  | 74.00  | -16.93 | Peak   |
| 2 5460.000 | 54.07  | 8.78  | 32.51  | 53.56  | 74.00  | -20.44 | Peak   |
| 3 5522.900 | 100.02 | 8.86  | 32.55  | 99.82  | 74.00  | 25.82  | Peak   |



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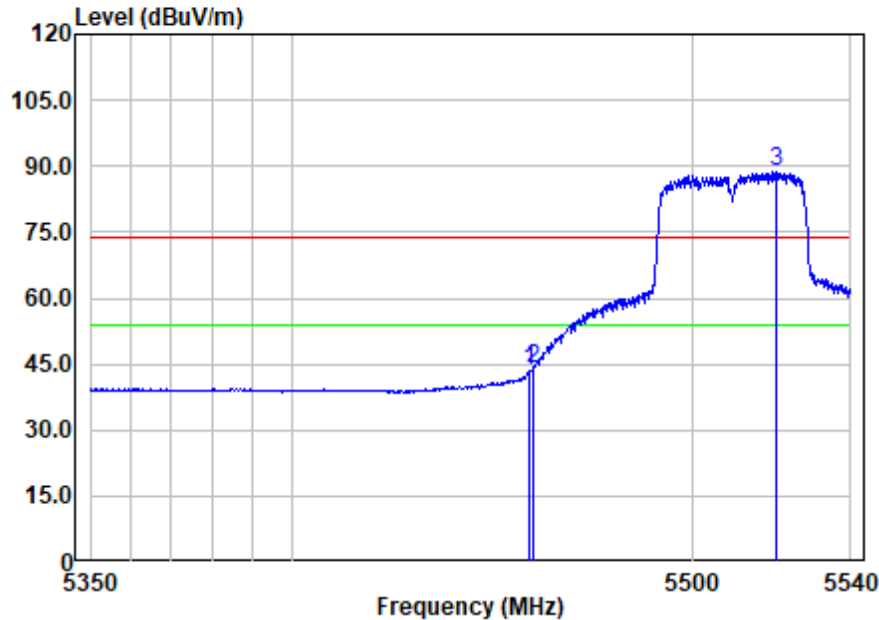
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



|   | Freq     | Read Level | Cable Loss | Ant Factor | Level  | Limit  | Over Limit | Remark  |
|---|----------|------------|------------|------------|--------|--------|------------|---------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m | dBuV/m | dB         |         |
| 1 | 5458.870 | 43.79      | 8.78       | 32.51      | 43.28  | 54.00  | -10.72     | Average |
| 2 | 5460.000 | 44.46      | 8.78       | 32.51      | 43.95  | 54.00  | -10.05     | Average |
| 3 | 5521.190 | 88.85      | 8.86       | 32.54      | 88.64  | 54.00  | 34.64      | Average |



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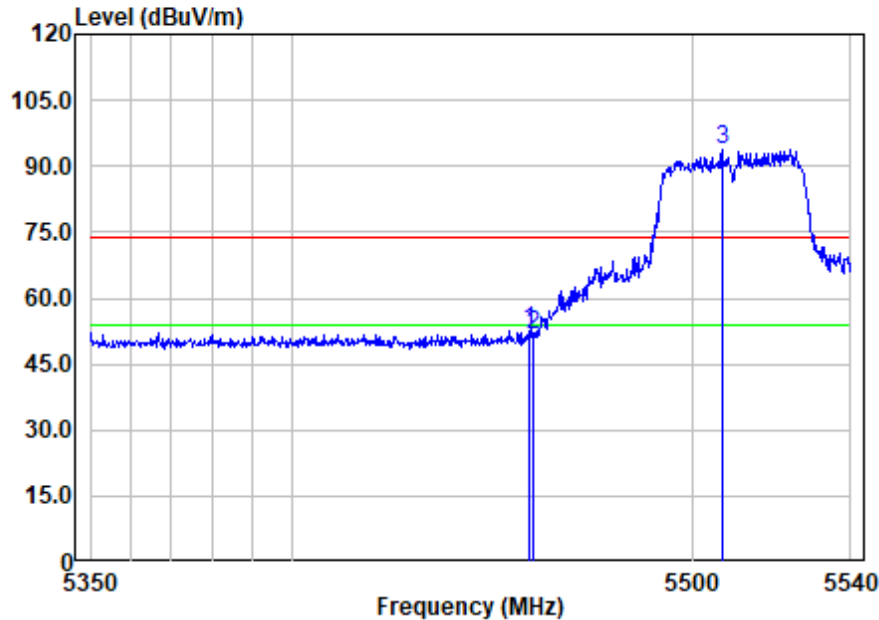
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



|            | Read  | Cable | Ant    |        | Limit  | Over   |        |
|------------|-------|-------|--------|--------|--------|--------|--------|
| Freq       | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz        | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 5458.680 | 53.25 | 8.78  | 32.51  | 52.74  | 74.00  | -21.26 | Peak   |
| 2 5460.000 | 52.16 | 8.78  | 32.51  | 51.65  | 74.00  | -22.35 | Peak   |
| 3 5507.510 | 93.98 | 8.84  | 32.53  | 93.69  | 74.00  | 19.69  | Peak   |



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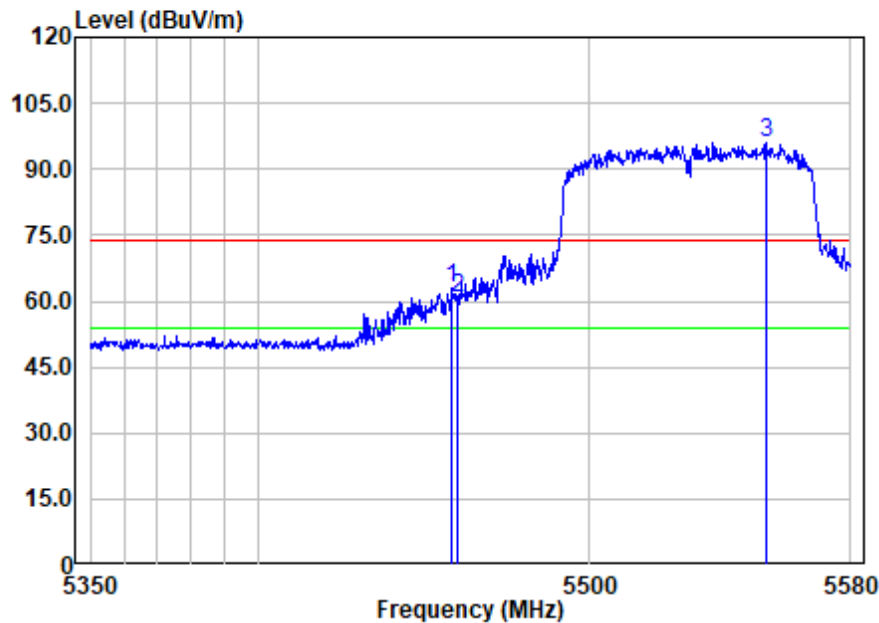
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low



|   | Freq     | Read Level | Cable Loss | Ant Factor | Level  | Limit Line | Over Limit | Remark |
|---|----------|------------|------------|------------|--------|------------|------------|--------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 5458.330 | 63.53      | 8.78       | 32.51      | 63.02  | 74.00      | -10.98     | Peak   |
| 2 | 5460.000 | 61.39      | 8.78       | 32.51      | 60.88  | 74.00      | -13.12     | Peak   |
| 3 | 5554.010 | 96.01      | 8.90       | 32.58      | 95.98  | 74.00      | 21.98      | Peak   |



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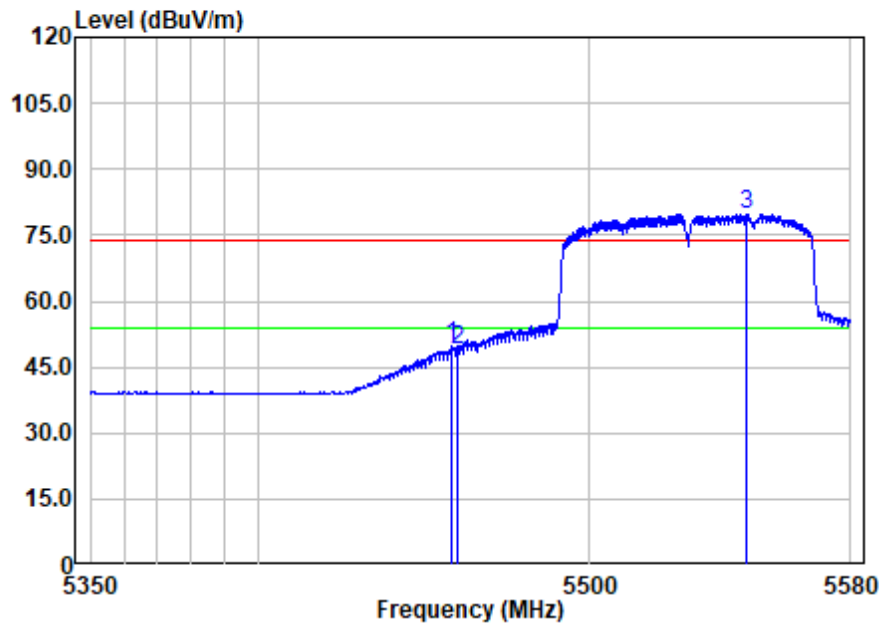
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

Page: 104 of 207

Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



|   | Freq     | Read Level | Cable Loss | Ant Factor | Level  | Limit Line | Over Limit | Remark  |
|---|----------|------------|------------|------------|--------|------------|------------|---------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m | dBuV/m     | dB         |         |
| 1 | 5458.330 | 50.41      | 8.78       | 32.51      | 49.90  | 54.00      | -4.10      | Average |
| 2 | 5460.000 | 49.51      | 8.78       | 32.51      | 49.00  | 54.00      | -5.00      | Average |
| 3 | 5548.030 | 79.73      | 8.89       | 32.57      | 79.66  | 54.00      | 25.66      | Average |



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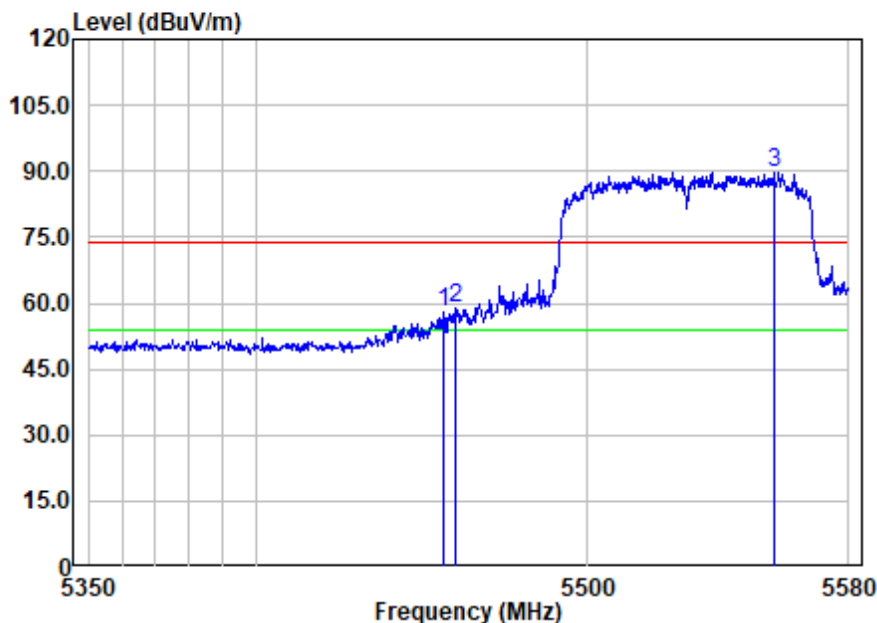
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



|   | Freq     | Read Level | Cable Loss | Ant Factor | Level  | Limit Line | Over Limit | Remark |
|---|----------|------------|------------|------------|--------|------------|------------|--------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 5456.260 | 58.63      | 8.78       | 32.51      | 58.11  | 74.00      | -15.89     | Peak   |
| 2 | 5460.000 | 59.23      | 8.78       | 32.51      | 58.72  | 74.00      | -15.28     | Peak   |
| 3 | 5557.000 | 89.84      | 8.91       | 32.58      | 89.83  | 74.00      | 15.83      | Peak   |



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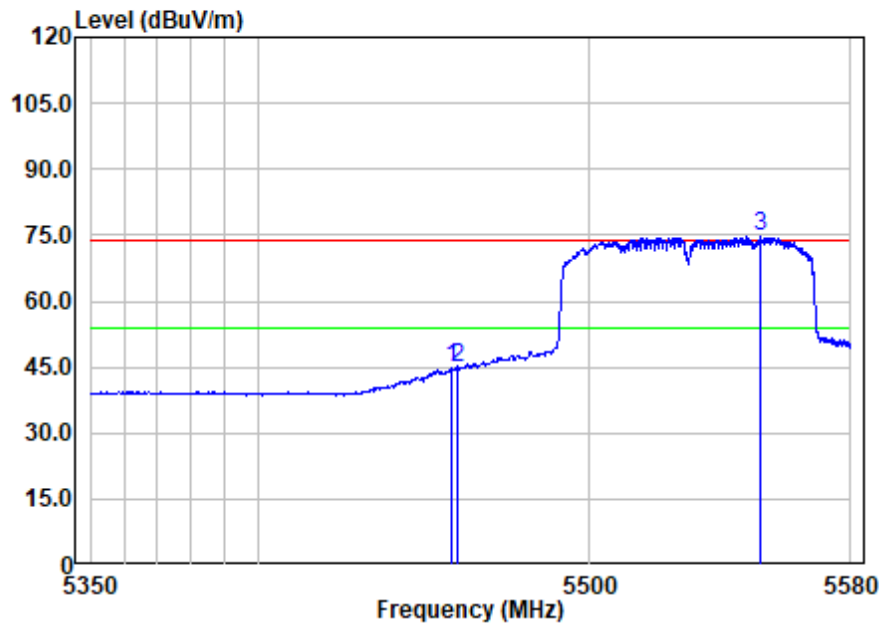
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## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



|   | Freq     | Read Level | Cable Loss | Ant Factor | Level  | Limit Line | Over Limit | Remark  |
|---|----------|------------|------------|------------|--------|------------|------------|---------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m | dBuV/m     | dB         |         |
| 1 | 5458.330 | 45.31      | 8.78       | 32.51      | 44.80  | 54.00      | -9.20      | Average |
| 2 | 5460.000 | 45.14      | 8.78       | 32.51      | 44.63  | 54.00      | -9.37      | Average |
| 3 | 5552.400 | 74.65      | 8.90       | 32.58      | 74.61  | 54.00      | 20.61      | Average |



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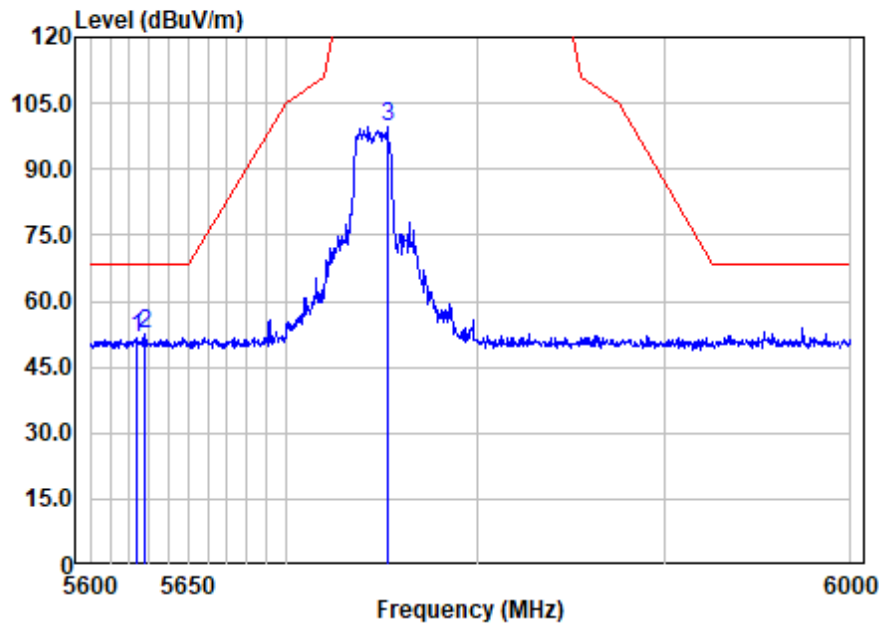
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## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



|   | Freq     | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m      | dBuV/m     | dB          |
| 1 | 5623.600 | 51.31      | 8.94       | 32.73      | 51.49       | 68.20      | -16.71 Peak |
| 2 | 5627.600 | 52.20      | 8.95       | 32.74      | 52.38       | 68.20      | -15.82 Peak |
| 3 | 5753.200 | 99.14      | 9.01       | 33.28      | 99.47       | 135.00     | -35.53 Peak |



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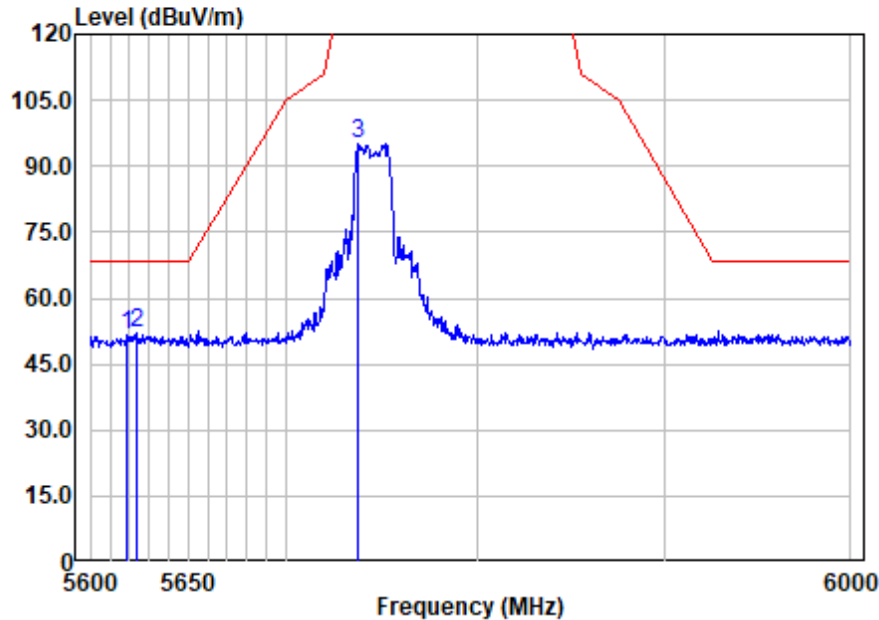
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## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



|            | Read  | Cable | Ant    |        | Limit  | Over   |        |
|------------|-------|-------|--------|--------|--------|--------|--------|
| Freq       | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz        | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 5618.400 | 51.43 | 8.94  | 32.71  | 51.61  | 68.20  | -16.59 | Peak   |
| 2 5624.000 | 51.71 | 8.94  | 32.73  | 51.89  | 68.20  | -16.31 | Peak   |
| 3 5737.200 | 94.84 | 9.00  | 33.21  | 95.11  | 135.00 | -39.89 | Peak   |



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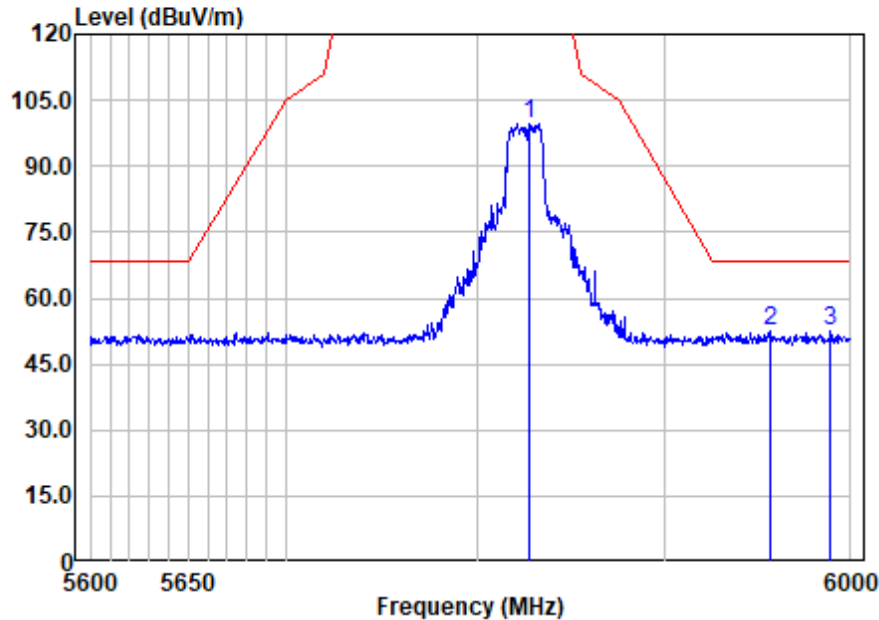
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## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



|            | Read  | Cable | Ant    |        | Limit  | Over   |        |
|------------|-------|-------|--------|--------|--------|--------|--------|
| Freq       | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz        | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 5827.600 | 99.25 | 9.05  | 33.53  | 99.67  | 135.00 | -35.33 | Peak   |
| 2 5956.800 | 52.16 | 9.12  | 33.53  | 52.35  | 68.20  | -15.85 | Peak   |
| 3 5989.200 | 52.20 | 9.13  | 33.48  | 52.38  | 68.20  | -15.82 | Peak   |



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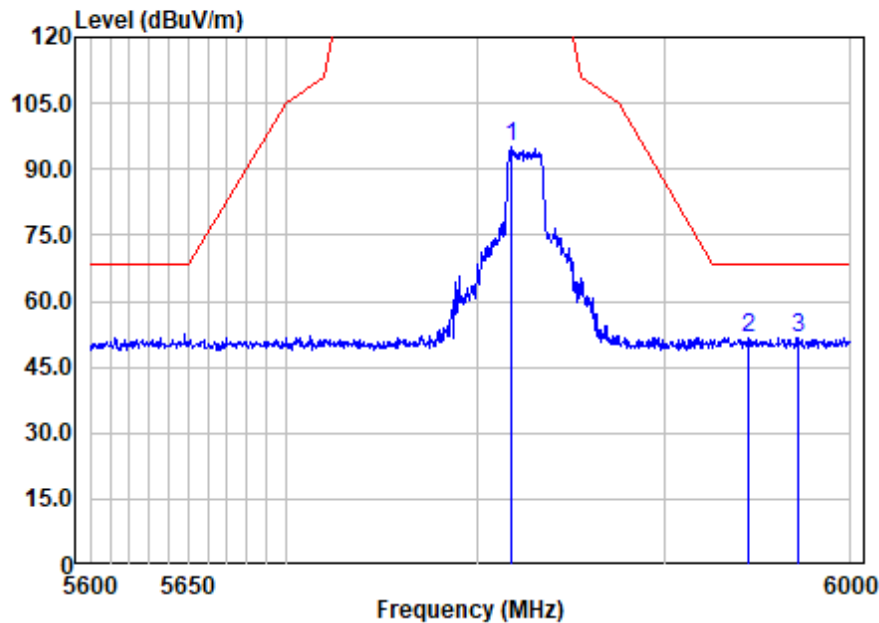
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## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



|   | Freq     | Read Level | Cable Loss | Ant Factor | Level  | Limit  | Over Limit | Remark |
|---|----------|------------|------------|------------|--------|--------|------------|--------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m | dBuV/m | dB         |        |
| 1 | 5818.000 | 94.78      | 9.04       | 33.52      | 95.23  | 135.00 | -39.77     | Peak   |
| 2 | 5944.400 | 51.62      | 9.11       | 33.54      | 51.79  | 68.20  | -16.41     | Peak   |
| 3 | 5971.200 | 51.34      | 9.12       | 33.51      | 51.52  | 68.20  | -16.68     | Peak   |



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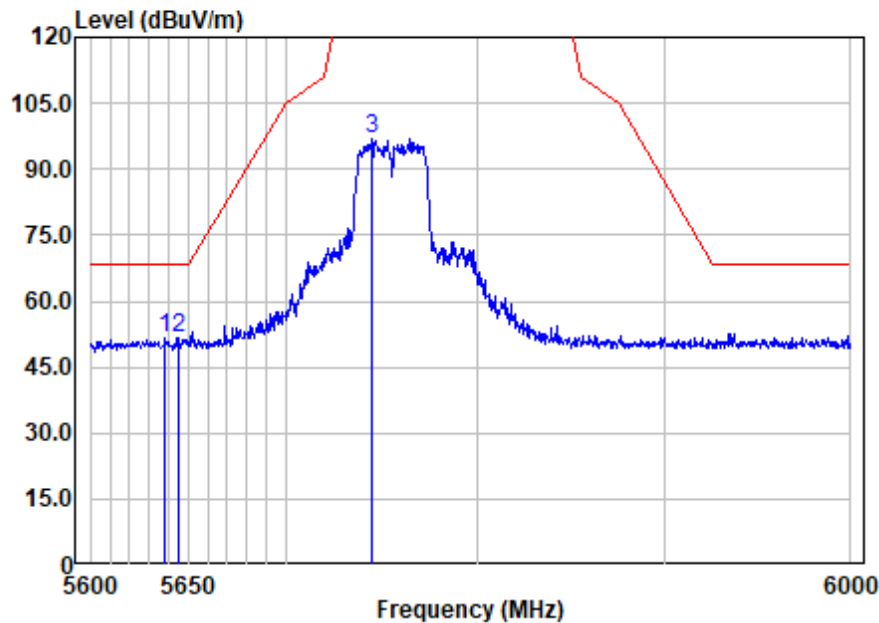
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## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



|            | Read  | Cable | Ant    |        | Limit  | Over   |        |
|------------|-------|-------|--------|--------|--------|--------|--------|
| Freq       | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz        | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 5638.400 | 51.23 | 8.95  | 32.79  | 51.40  | 68.20  | -16.80 | Peak   |
| 2 5644.800 | 51.58 | 8.95  | 32.81  | 51.74  | 68.20  | -16.46 | Peak   |
| 3 5744.800 | 96.49 | 9.01  | 33.25  | 96.80  | 135.00 | -38.20 | Peak   |



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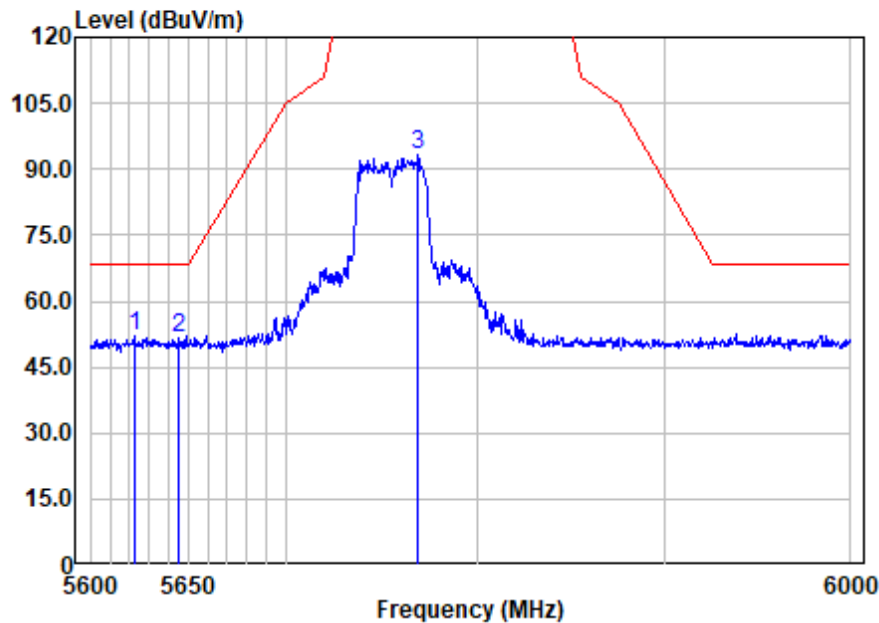
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



|   | Freq     | Read Level | Cable Loss | Ant Factor | Limit Level | Over Limit | Remark      |
|---|----------|------------|------------|------------|-------------|------------|-------------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m      | dBuV/m     | dB          |
| 1 | 5622.400 | 51.74      | 8.94       | 32.72      | 51.91       | 68.20      | -16.29 Peak |
| 2 | 5645.200 | 51.58      | 8.95       | 32.82      | 51.74       | 68.20      | -16.46 Peak |
| 3 | 5769.200 | 92.97      | 9.02       | 33.36      | 93.37       | 135.00     | -41.63 Peak |



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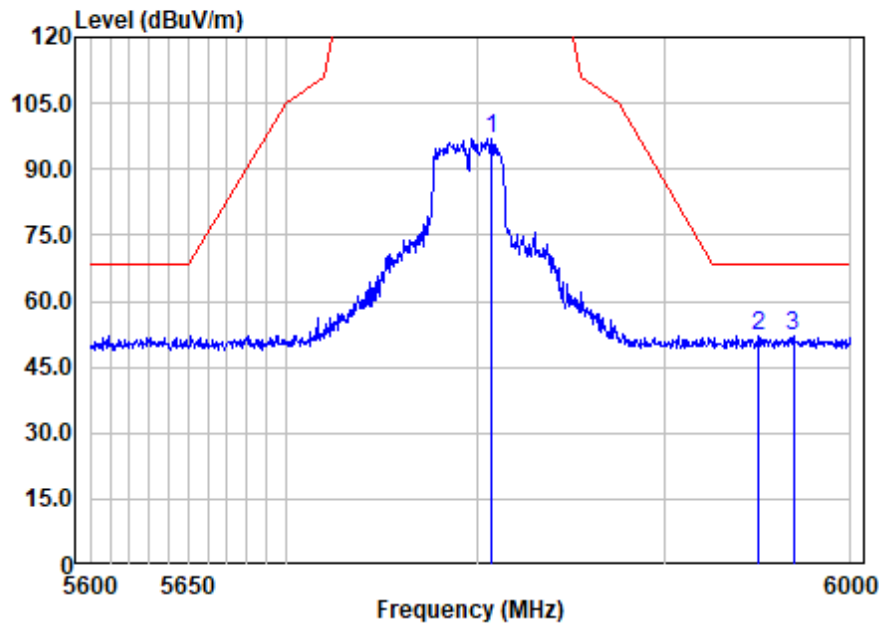
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



|   | Freq     | Read Level | Cable Loss | Ant Factor | Level  | Limit Line | Over Limit | Remark |
|---|----------|------------|------------|------------|--------|------------|------------|--------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 5808.000 | 96.48      | 9.04       | 33.51      | 96.97  | 135.00     | -38.03     | Peak   |
| 2 | 5950.400 | 52.09      | 9.11       | 33.53      | 52.26  | 68.20      | -15.94     | Peak   |
| 3 | 5968.800 | 51.92      | 9.12       | 33.51      | 52.10  | 68.20      | -16.10     | Peak   |



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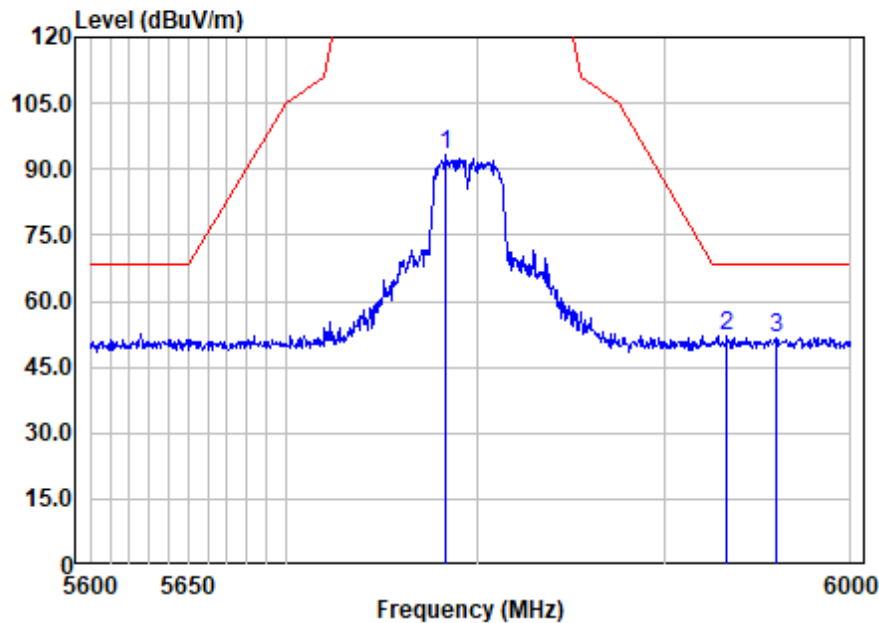
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



|   | Freq     | Read Level | Cable Loss | Ant Factor | Level  | Limit Line | Over Limit | Remark |
|---|----------|------------|------------|------------|--------|------------|------------|--------|
|   | MHz      | dBuV       | dB         | dB/m       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 5783.600 | 92.69      | 9.03       | 33.42      | 93.14  | 135.00     | -41.86     | Peak   |
| 2 | 5933.200 | 51.95      | 9.11       | 33.56      | 52.13  | 68.20      | -16.07     | Peak   |
| 3 | 5960.000 | 51.33      | 9.12       | 33.52      | 51.51  | 68.20      | -16.69     | Peak   |



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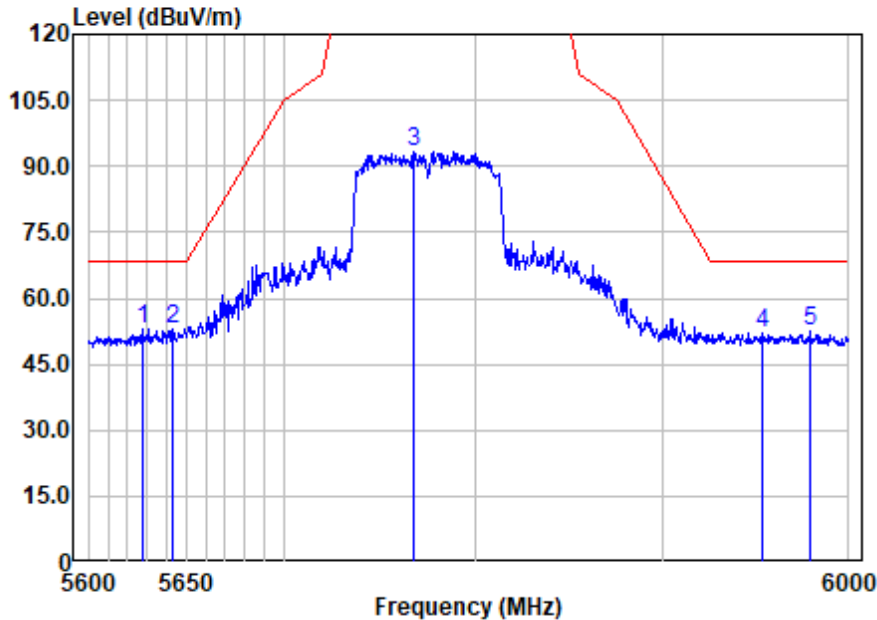
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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low



|            | Read  | Cable | Ant    |        | Limit  | Over   |        |
|------------|-------|-------|--------|--------|--------|--------|--------|
| Freq       | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz        | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 5627.600 | 52.90 | 8.95  | 32.74  | 53.08  | 68.20  | -15.12 | Peak   |
| 2 5642.800 | 52.64 | 8.95  | 32.81  | 52.81  | 68.20  | -15.39 | Peak   |
| 3 5767.600 | 92.74 | 9.02  | 33.35  | 93.13  | 135.00 | -41.87 | Peak   |
| 4 5953.600 | 51.87 | 9.12  | 33.53  | 52.05  | 68.20  | -16.15 | Peak   |
| 5 5979.200 | 52.13 | 9.13  | 33.50  | 52.32  | 68.20  | -15.88 | Peak   |



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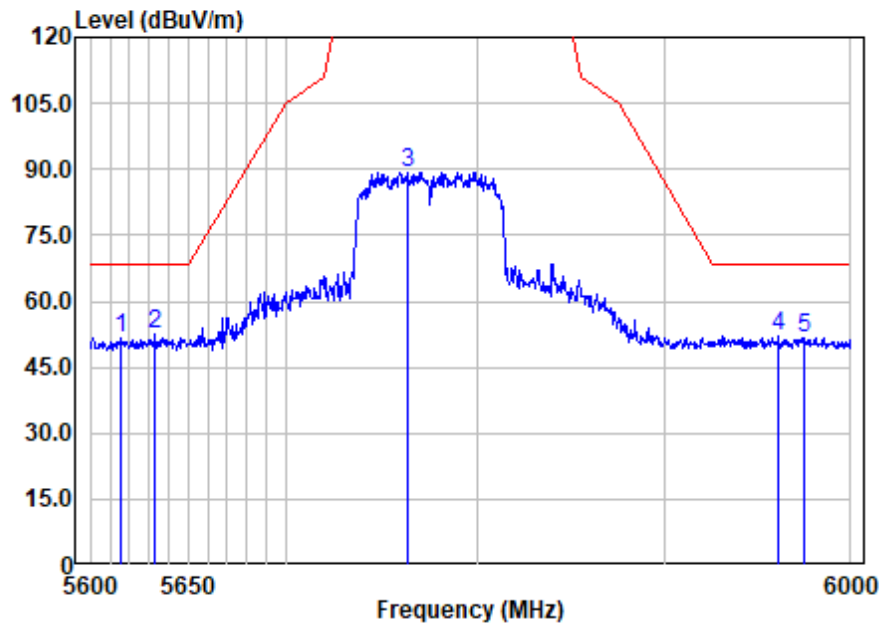
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## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



|            | Read  | Cable | Ant    |        | Limit  | Over   |        |
|------------|-------|-------|--------|--------|--------|--------|--------|
| Freq       | Level | Loss  | Factor | Level  | Line   | Limit  | Remark |
| MHz        | dBuV  | dB    | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 5616.000 | 51.50 | 8.94  | 32.70  | 51.69  | 68.20  | -16.51 | Peak   |
| 2 5633.200 | 52.32 | 8.95  | 32.77  | 52.50  | 68.20  | -15.70 | Peak   |
| 3 5763.600 | 89.04 | 9.02  | 33.33  | 89.42  | 135.00 | -45.58 | Peak   |
| 4 5960.800 | 51.73 | 9.12  | 33.52  | 51.91  | 68.20  | -16.29 | Peak   |
| 5 5974.400 | 51.54 | 9.13  | 33.50  | 51.72  | 68.20  | -16.48 | Peak   |



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## Compliance Certification Services (Kunshan) Inc.

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### 7.9 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

#### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

#### 7.9.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test               | 00           | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |
|                          | 01           | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
|                          | 02           | TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
|                          | 03           | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |



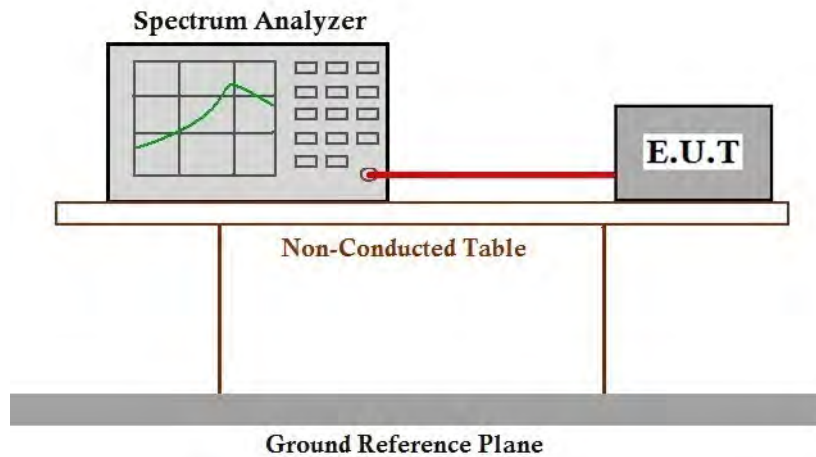
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### 7.9.3 Test Setup Diagram



### 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.10 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490    | 2400/F(kHz)                      | 300                          |
| 0.490-1.705    | 24000/F(kHz)                     | 30                           |
| 1.705-30.0     | 30                               | 30                           |
| 30-88          | 100                              | 3                            |
| 88-216         | 150                              | 3                            |
| 216-960        | 200                              | 3                            |
| 960-1000       | 500                              | 3                            |

#### 7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C

Humidity: 48 % RH

Atmospheric Pressure: 1010 mbar

#### 7.10.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 00        | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |
| Pre-scan test         | 00        | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |
|                       | 01        | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
|                       | 02        | TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the                                                                                                                                                                                                                              |



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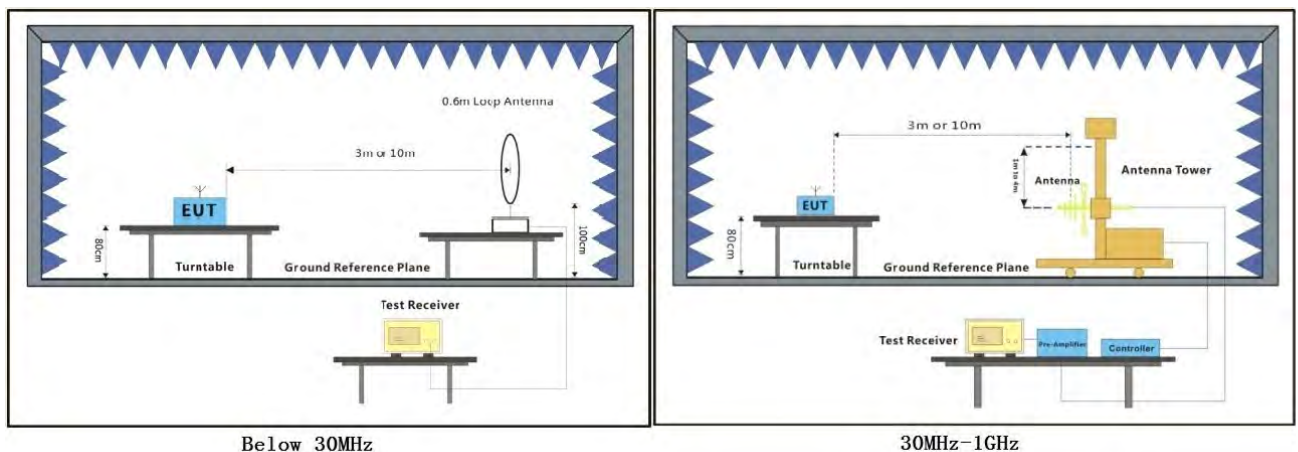
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|  |    |                                                                                                                                                                                                                                                                                                                                                                                            |
|--|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |    | worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.                                                                                                                                                               |
|  | 03 | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

### 7.10.3 Test Setup Diagram



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## 7.10.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 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.
- b. 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.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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## Compliance Certification Services (Kunshan) Inc.

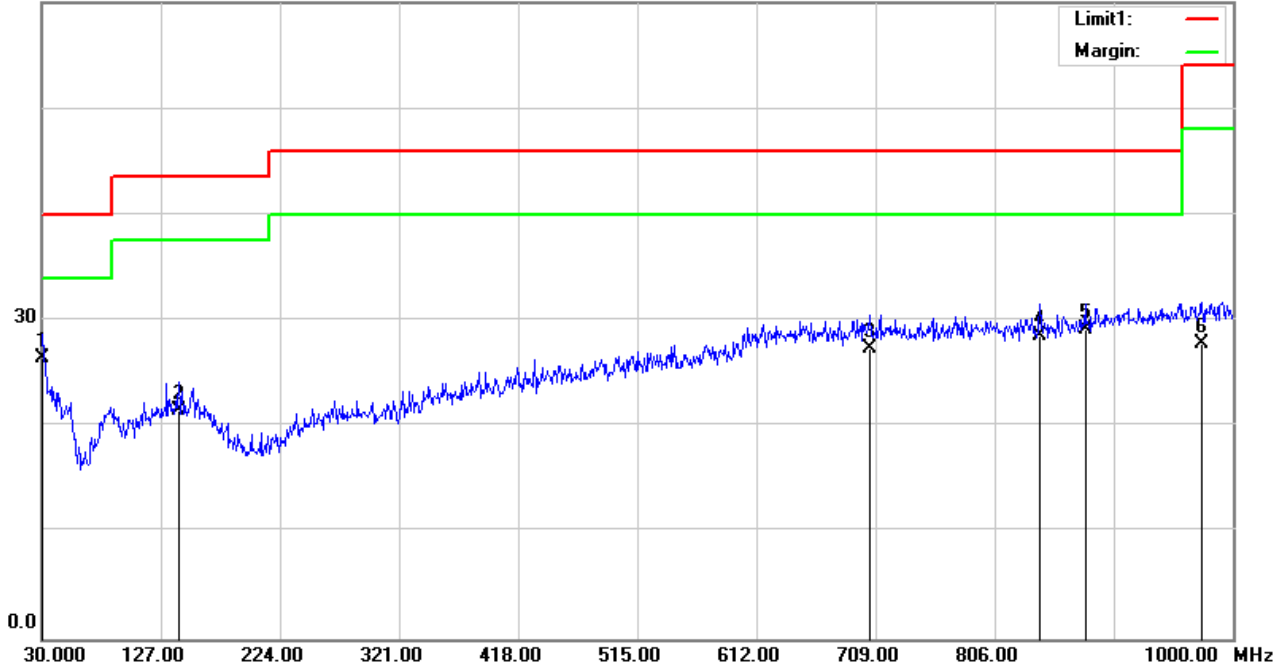
Report No.: KSCR220900161101

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Below 1GHz

Mode:00; Polarization:Horizontal;

60.0 dBuV/m



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Height<br>(cm) | Degree<br>(deg.) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|----------------|------------------|--------|
| 1   | 30.9700            | 1.15              | 25.38                   | 26.53              | 40.00             | -13.47         | 100            | 112              | QP     |
| 2   | 141.5500           | 1.70              | 19.86                   | 21.56              | 43.50             | -21.94         | 100            | 213              | QP     |
| 3   | 704.1500           | -0.14             | 27.50                   | 27.36              | 46.00             | -18.64         | 100            | 291              | QP     |
| 4   | 842.8600           | 0.61              | 28.04                   | 28.65              | 46.00             | -17.35         | 100            | 0                | QP     |
| 5   | 879.7200           | 0.69              | 28.43                   | 29.12              | 46.00             | -16.88         | 100            | 292              | QP     |
| 6   | 974.7800           | -1.36             | 29.25                   | 27.89              | 54.00             | -26.11         | 100            | 360              | QP     |



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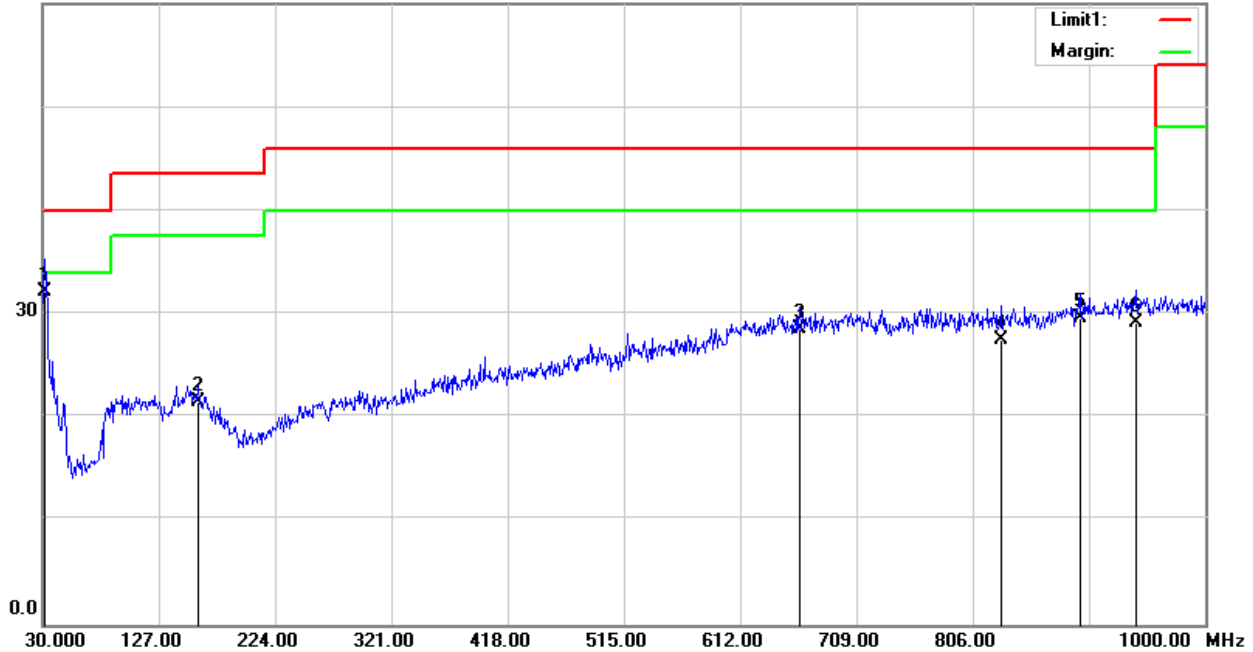
## Compliance Certification Services (Kunshan) Inc.

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Mode:00; Polarization:Vertical

60.0 dBuV/m



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Height<br>(cm) | Degree<br>(deg.) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|----------------|------------------|--------|
| 1   | 31.9400            | 7.30              | 24.82                   | 32.12              | 40.00             | -7.88          | 100            | 0                | QP     |
| 2   | 159.9800           | 2.20              | 19.36                   | 21.56              | 43.50             | -21.94         | 100            | 0                | QP     |
| 3   | 661.4700           | 1.45              | 27.20                   | 28.65              | 46.00             | -17.35         | 100            | 149              | QP     |
| 4   | 829.2800           | -0.49             | 27.98                   | 27.49              | 46.00             | -18.51         | 201            | 360              | QP     |
| 5   | 895.2400           | 1.04              | 28.61                   | 29.65              | 46.00             | -16.35         | 201            | 360              | QP     |
| 6   | 941.8000           | -0.09             | 29.20                   | 29.11              | 46.00             | -16.89         | 100            | 0                | QP     |



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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2209001611AT



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## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2209001611AT



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## 10 Appendix

Power level setting using in test:

| Channel | 802.11ac(VHT20) | Channel | 802.11ac(VHT40) |
|---------|-----------------|---------|-----------------|
|         | Ant 1           |         | Ant 1           |
| 36      | 15              | 38      | 15              |
| 40      | 15              | 46      | 15              |
| 48      | 15              | 54      | 15              |
| 52      | 15              | 62      | 15              |
| 60      | 15              | 102     | 15              |
| 64      | 16              | 110     | 16              |
| 100     | 16              | 134     | 16              |
| 116     | 16              | 151     | 17              |
| 140     | 16              | 159     | 17              |
| 149     | 17              |         |                 |
| 157     | 17              |         |                 |
| 165     | 17              |         |                 |
| Channel | 802.11ac(VHT80) |         |                 |
|         | Ant 1           |         |                 |
| 42      | 15              |         |                 |
| 58      | 15              |         |                 |
| 106     | 15              |         |                 |
| 122     | 15              |         |                 |
| 155     | 15              |         |                 |



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## 1. Duty Cycle

### 1.1 Ant1

#### 1.1.1 Test Result

| Ant1             |         |                 |           |             |                |                                   |                       |
|------------------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode             | Tx Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11ac (VHT20) | SISO    | 5180            | 0.978     | 1.174       | 83.30          | 0.79                              | 0.03                  |
|                  |         | 5200            | 0.978     | 1.174       | 83.30          | 0.79                              | 0.01                  |
|                  |         | 5240            | 0.978     | 1.174       | 83.30          | 0.79                              | 0.01                  |
|                  |         | 5260            | 0.978     | 1.174       | 83.30          | 0.79                              | 0.06                  |
|                  |         | 5300            | 0.978     | 1.174       | 83.30          | 0.79                              | 0.03                  |
|                  |         | 5320            | 0.978     | 1.174       | 83.30          | 0.79                              | 0.03                  |
|                  |         | 5500            | 0.976     | 1.175       | 83.06          | 0.81                              | 0.03                  |
|                  |         | 5580            | 0.978     | 1.174       | 83.30          | 0.79                              | 0.03                  |
|                  |         | 5700            | 0.978     | 1.174       | 83.30          | 0.79                              | 0.01                  |
|                  |         | 5745            | 0.978     | 1.174       | 83.30          | 0.79                              | 0.04                  |
|                  |         | 5785            | 0.978     | 1.174       | 83.30          | 0.79                              | 0.03                  |
| 802.11ac (VHT40) | SISO    | 5825            | 0.978     | 1.174       | 83.30          | 0.79                              | 0.01                  |
|                  |         | 5190            | 0.494     | 0.691       | 71.49          | 1.46                              | 0.03                  |
|                  |         | 5230            | 0.494     | 0.691       | 71.49          | 1.46                              | 0.03                  |
|                  |         | 5270            | 0.494     | 0.692       | 71.39          | 1.46                              | 0.03                  |
|                  |         | 5310            | 0.494     | 0.691       | 71.49          | 1.46                              | 0.04                  |
|                  |         | 5510            | 0.494     | 0.692       | 71.39          | 1.46                              | 0.03                  |
|                  |         | 5550            | 0.494     | 0.691       | 71.49          | 1.46                              | 0.03                  |
|                  |         | 5670            | 0.494     | 0.691       | 71.49          | 1.46                              | 0.01                  |
|                  |         | 5755            | 0.493     | 0.691       | 71.35          | 1.47                              | 0.03                  |
| 802.11ac (VHT80) | SISO    | 5795            | 0.494     | 0.692       | 71.39          | 1.46                              | 0.06                  |
|                  |         | 5210            | 0.250     | 0.448       | 55.80          | 2.53                              | 0.05                  |
|                  |         | 5290            | 0.250     | 0.448       | 55.80          | 2.53                              | 0.09                  |
|                  |         | 5530            | 0.250     | 0.448       | 55.80          | 2.53                              | 0.03                  |
|                  |         | 5610            | 0.254     | 0.448       | 56.70          | 2.46                              | 0.08                  |
|                  |         | 5775            | 0.249     | 0.447       | 55.70          | 2.54                              | 0.05                  |



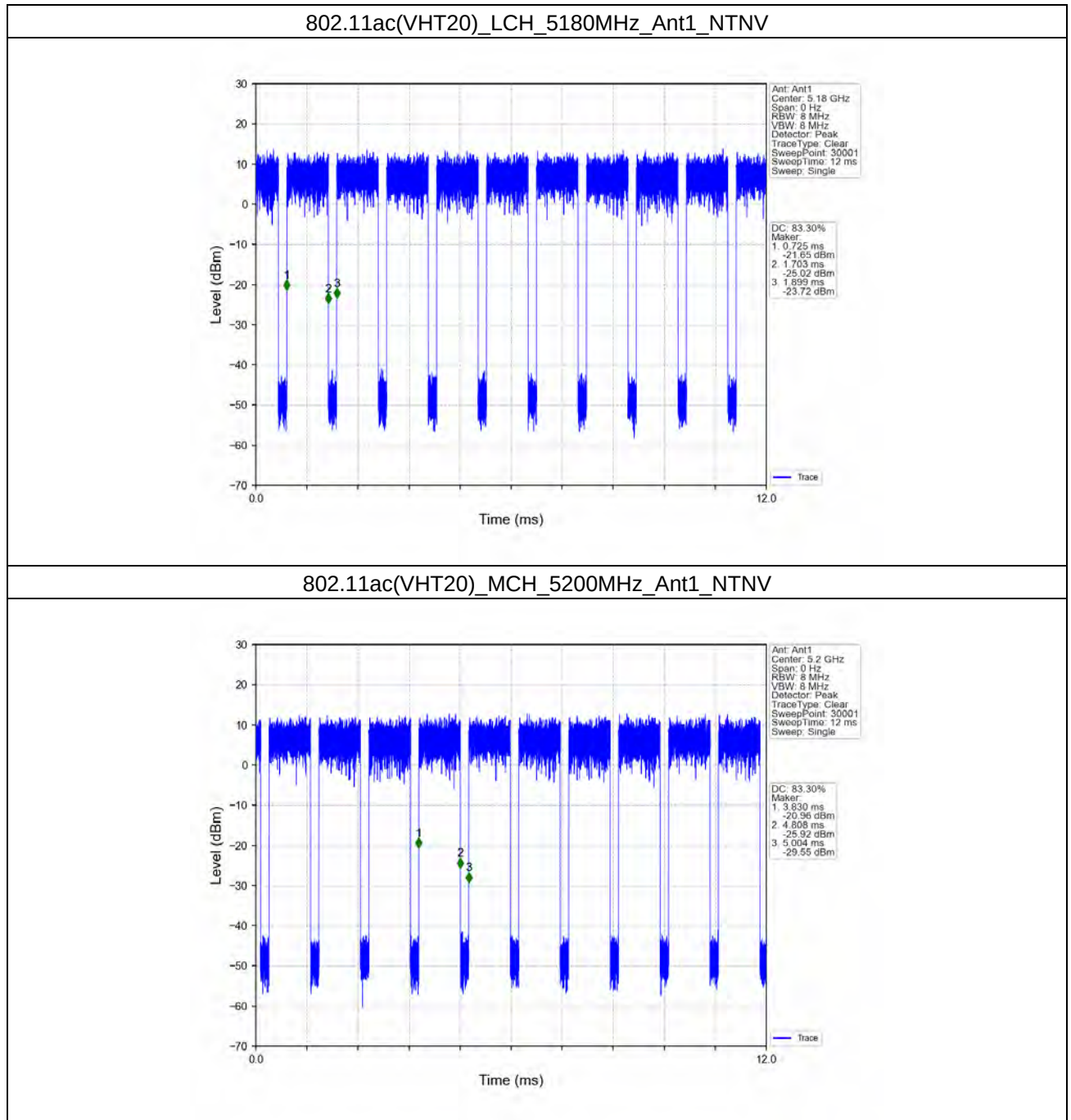
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### 1.1.2 Test Graph



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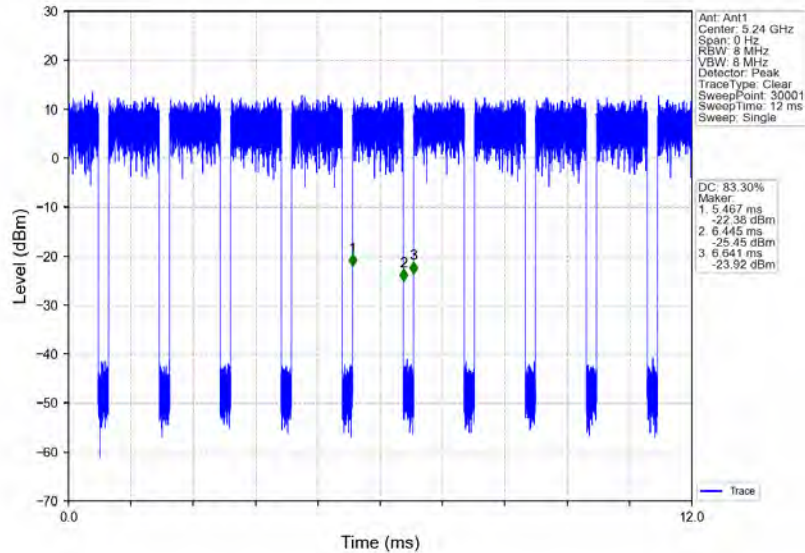
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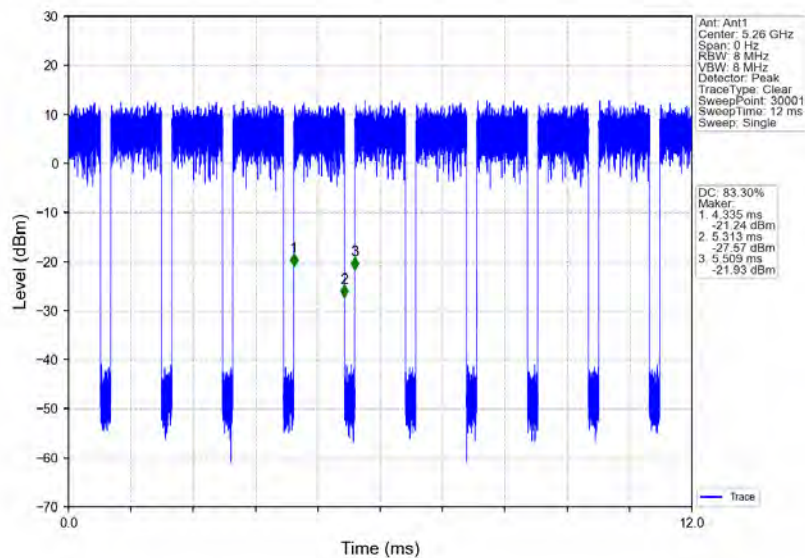
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802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



802.11ac(VHT20)\_LCH\_5260MHz\_Ant1\_NTNV



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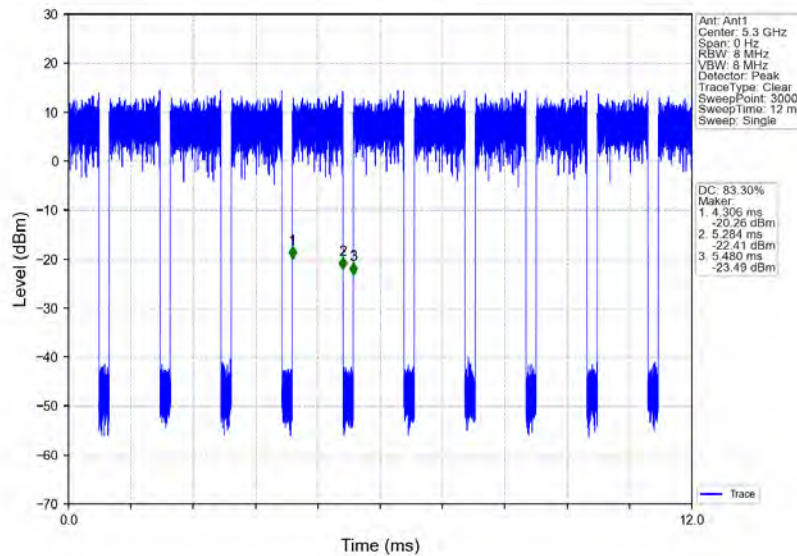
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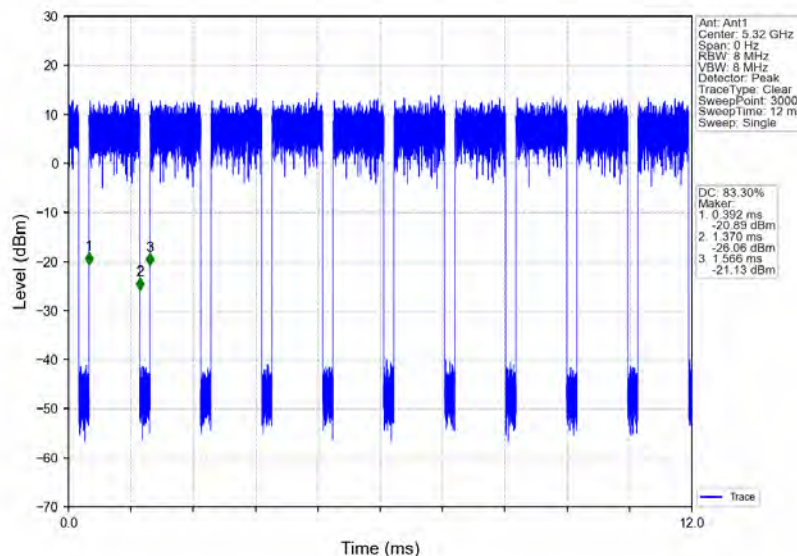
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802.11ac(VHT20)\_MCH\_5300MHz\_Ant1\_NTNV



802.11ac(VHT20)\_HCH\_5320MHz\_Ant1\_NTNV



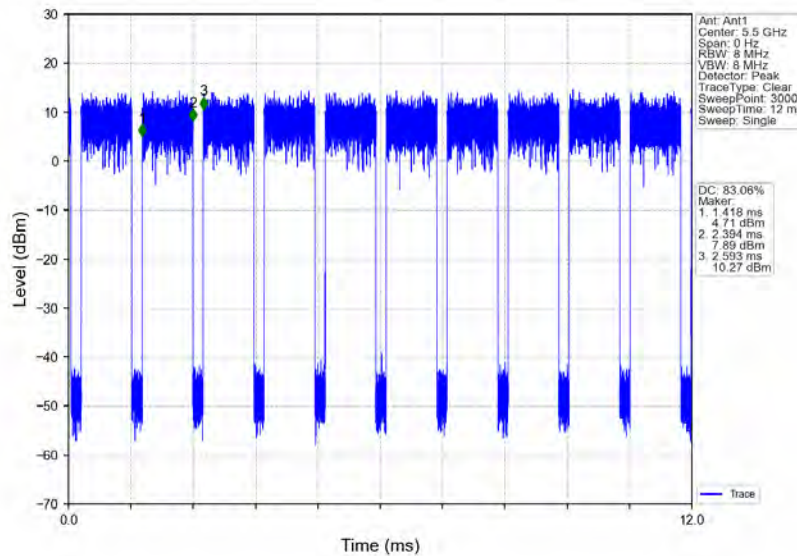
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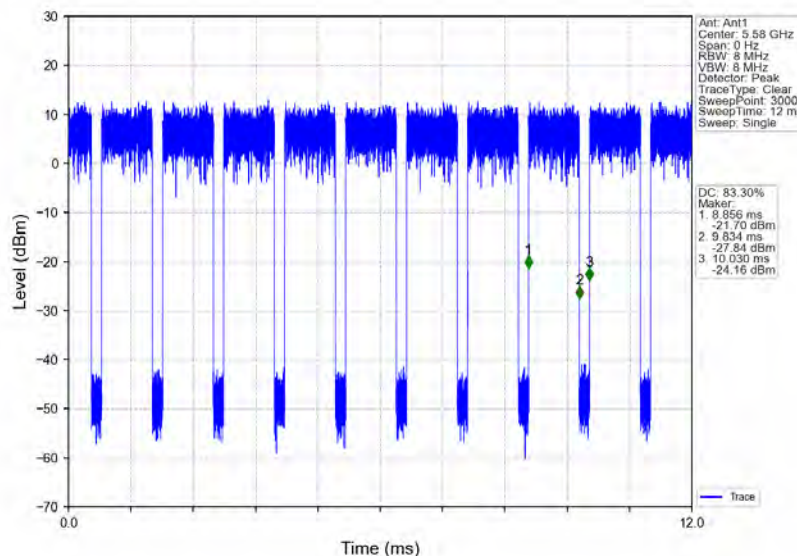
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802.11ac(VHT20)\_LCH\_5500MHz\_Ant1\_NTNV



802.11ac(VHT20)\_MCH\_5580MHz\_Ant1\_NTNV



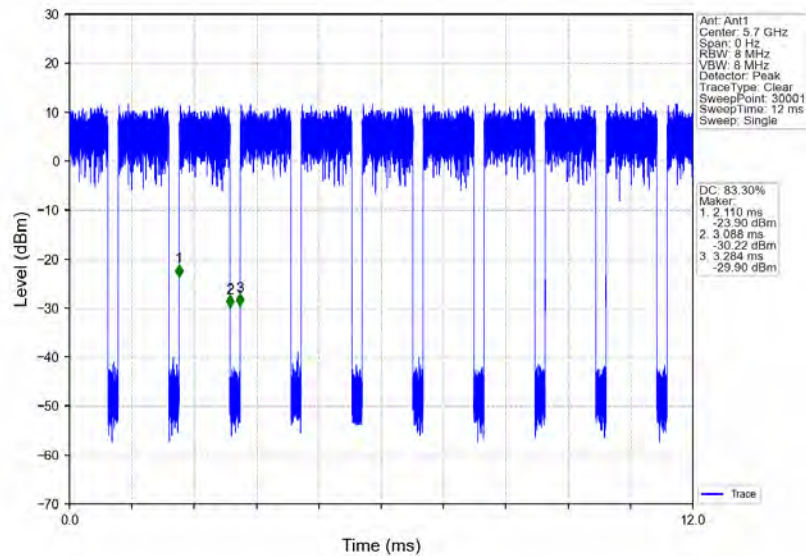
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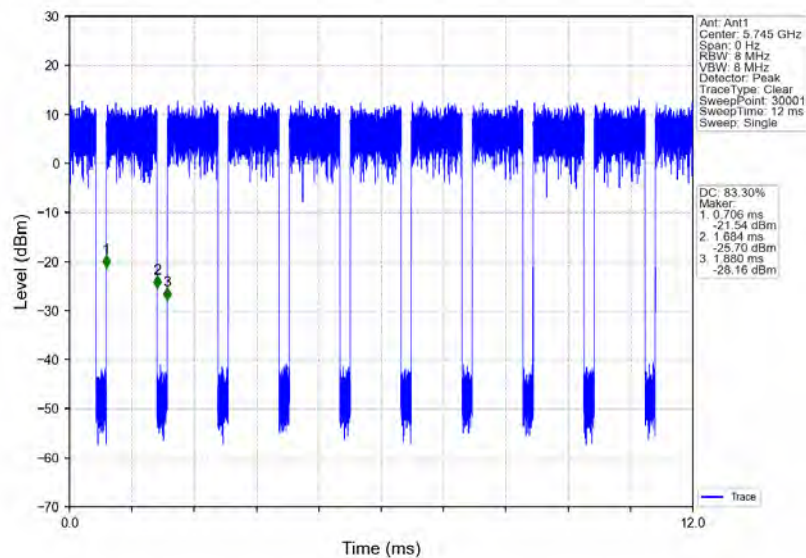
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802.11ac(VHT20)\_HCH\_5700MHz\_Ant1\_NTNV



802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



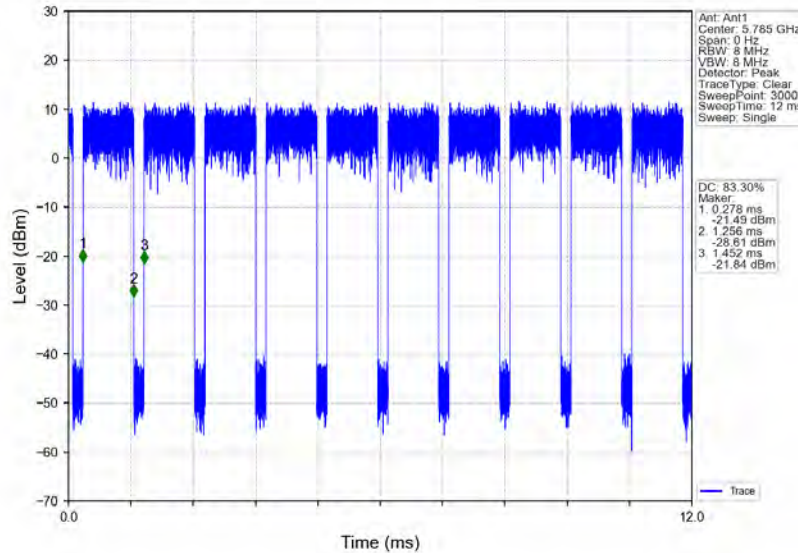
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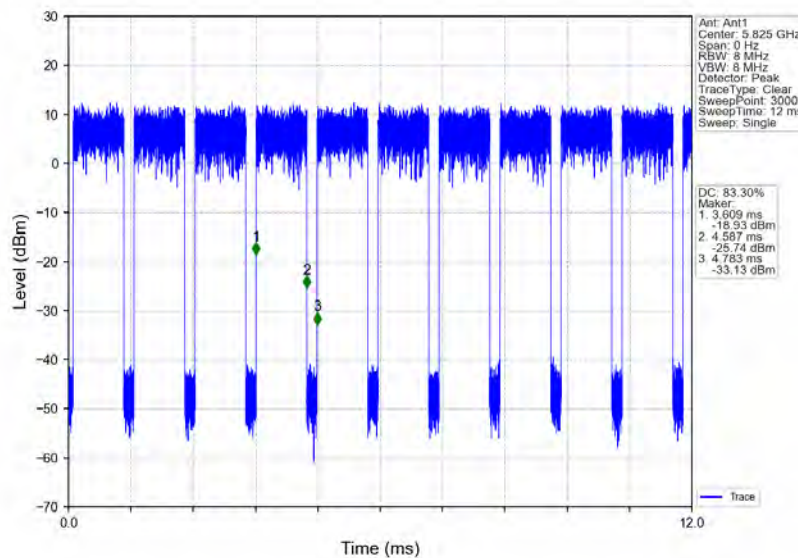
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802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



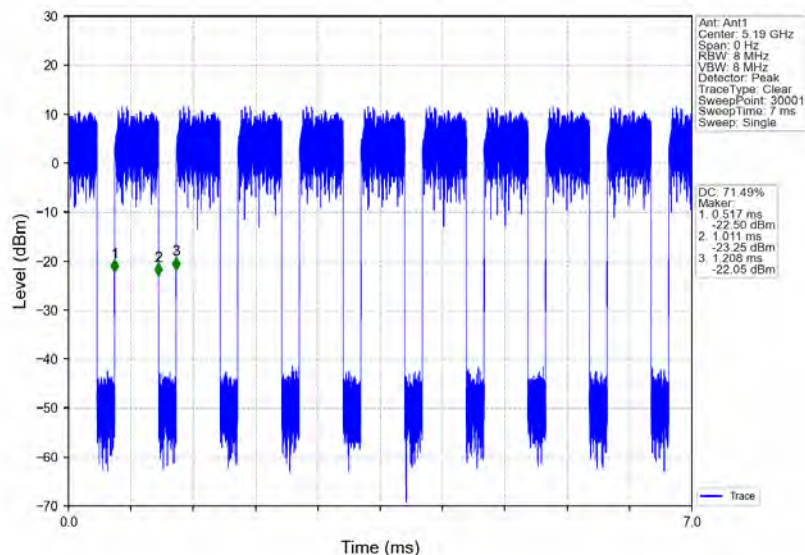
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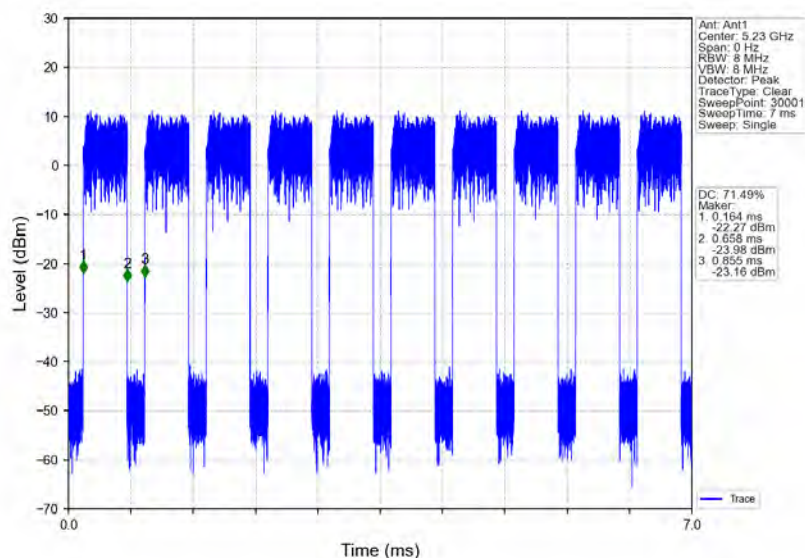
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802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



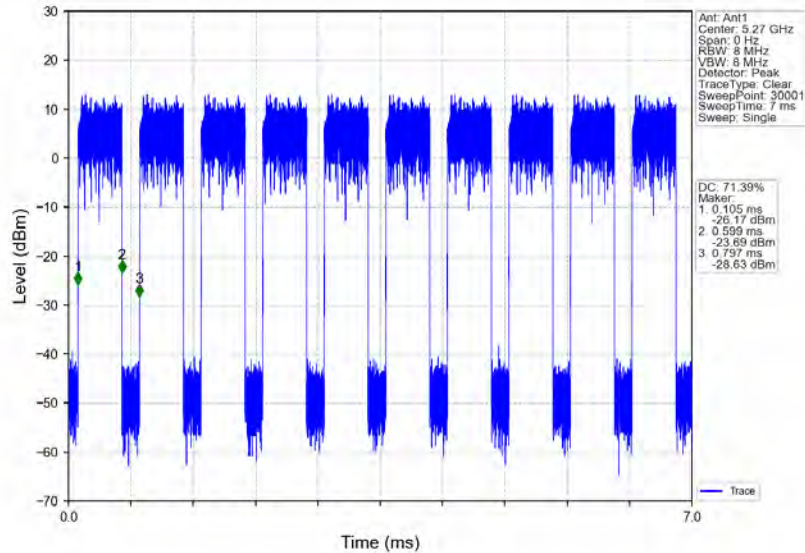
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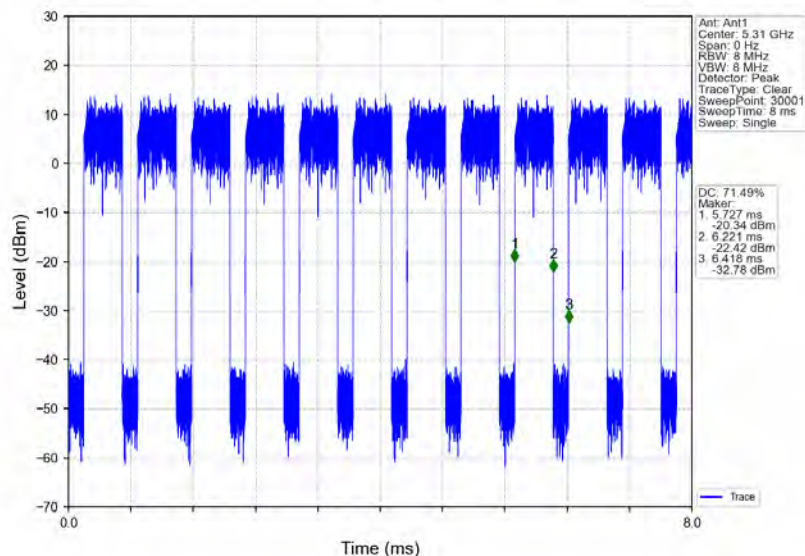
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802.11ac(VHT40)\_LCH\_5270MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5310MHz\_Ant1\_NTNV



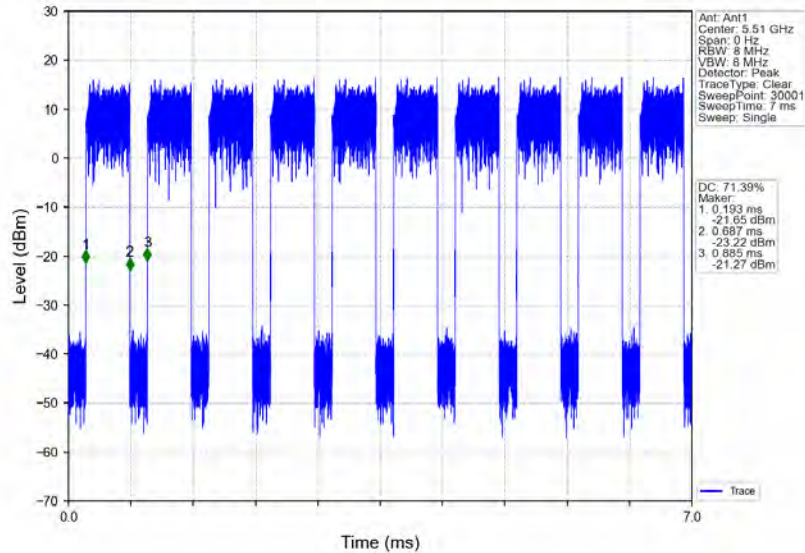
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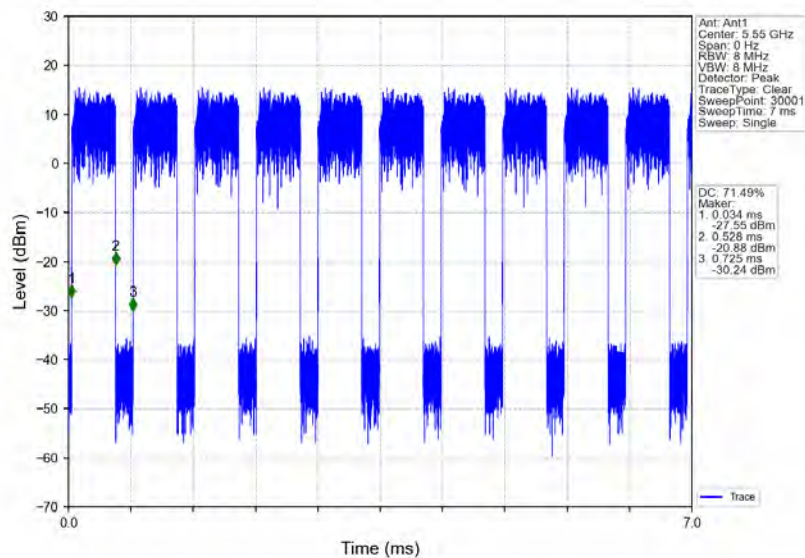
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802.11ac(VHT40)\_LCH\_5510MHz\_Ant1\_NTNV



802.11ac(VHT40)\_MCH\_5550MHz\_Ant1\_NTNV



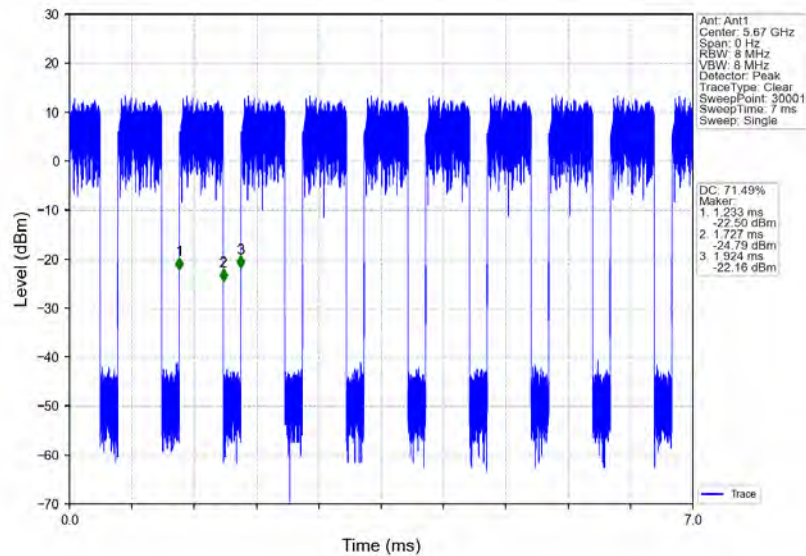
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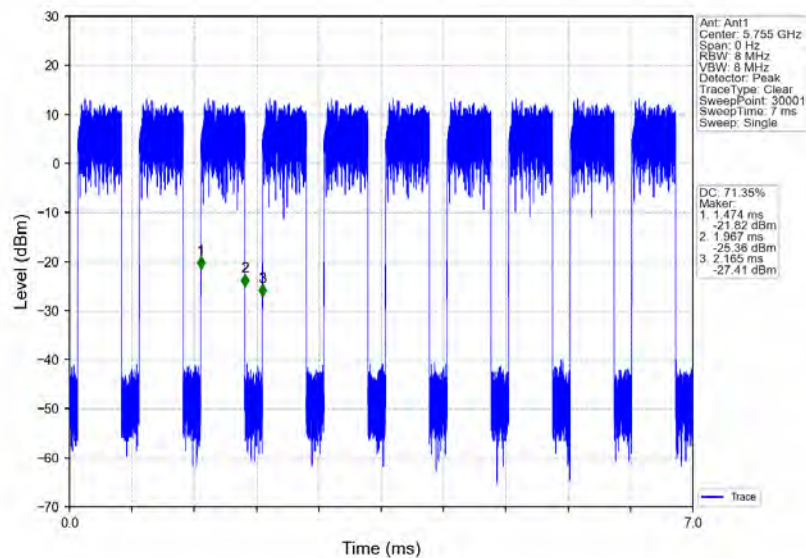
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### 802.11ac(VHT40)\_HCH\_5670MHz\_Ant1\_NTNV



### 802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



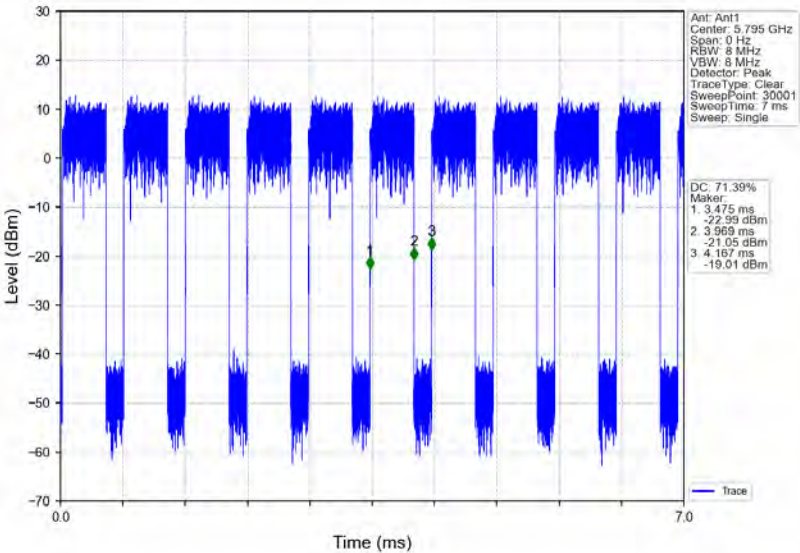
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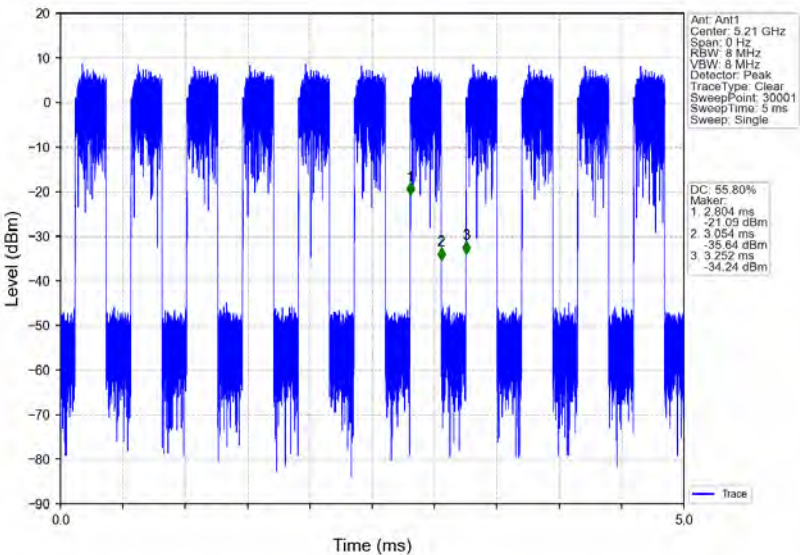
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802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



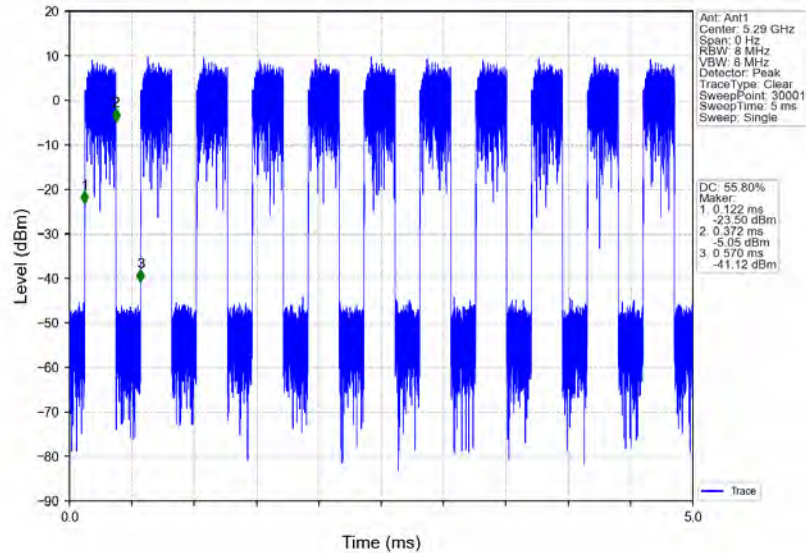
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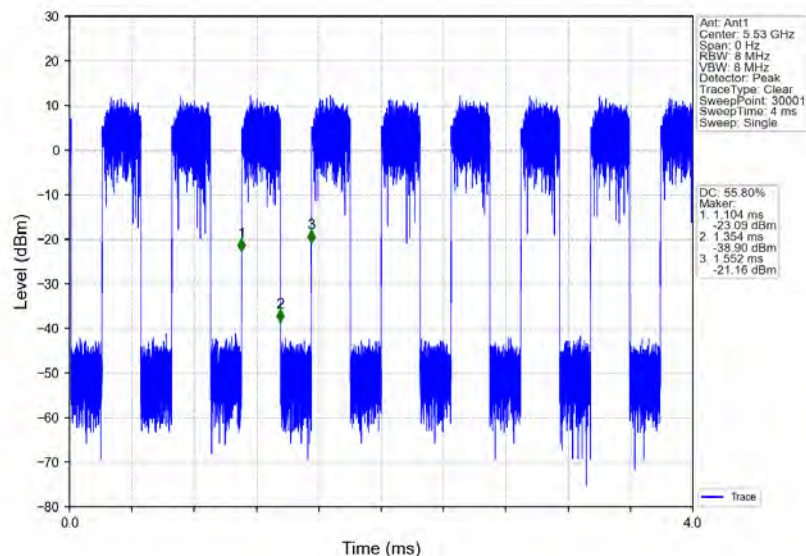
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802.11ac(VHT80)\_MCH\_5290MHz\_Ant1\_NTNV



802.11ac(VHT80)\_LCH\_5530MHz\_Ant1\_NTNV



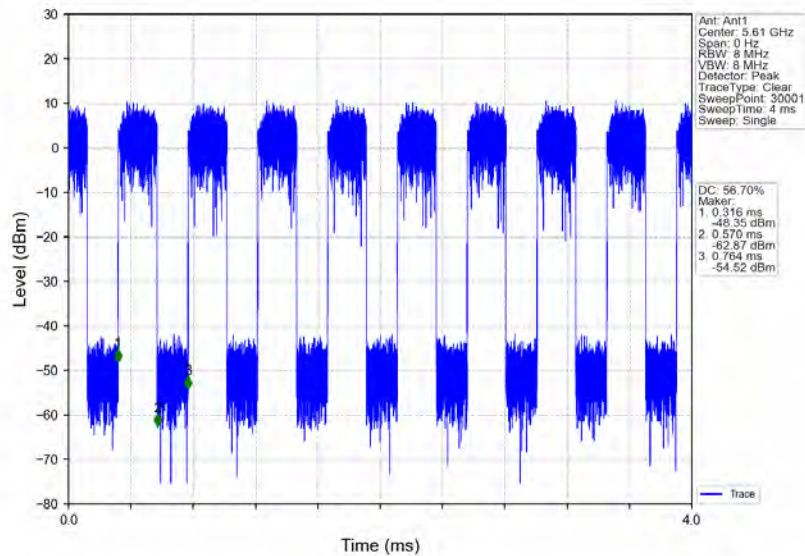
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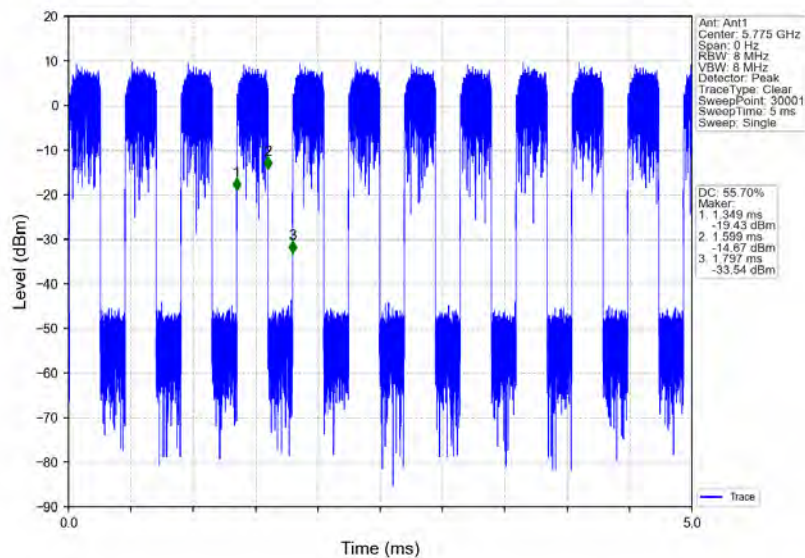
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### 802.11ac(VHT80)\_HCH\_5610MHz\_Ant1\_NTNV



### 802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

| Mode             | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) | Verdict |
|------------------|---------|-----------------|-----|------------------------------|---------|
|                  |         |                 |     | Result                       |         |
| 802.11ac (VHT20) | SISO    | 5180            | 1   | 19.097                       | Pass    |
|                  |         | 5200            | 1   | 19.124                       | Pass    |
|                  |         | 5240            | 1   | 19.153                       | Pass    |
|                  |         | 5260            | 1   | 19.236                       | Pass    |
|                  |         | 5300            | 1   | 19.516                       | Pass    |
|                  |         | 5320            | 1   | 19.665                       | Pass    |
|                  |         | 5500            | 1   | 18.867                       | Pass    |
|                  |         | 5580            | 1   | 18.843                       | Pass    |
|                  |         | 5700            | 1   | 18.913                       | Pass    |
|                  |         | 5745            | 1   | 18.925                       | Pass    |
|                  |         | 5785            | 1   | 19.081                       | Pass    |
|                  |         | 5825            | 1   | 19.449                       | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | 1   | 38.155                       | Pass    |
|                  |         | 5230            | 1   | 38.077                       | Pass    |
|                  |         | 5270            | 1   | 39.405                       | Pass    |
|                  |         | 5310            | 1   | 39.656                       | Pass    |
|                  |         | 5510            | 1   | 38.053                       | Pass    |
|                  |         | 5550            | 1   | 37.720                       | Pass    |
|                  |         | 5670            | 1   | 37.558                       | Pass    |
|                  |         | 5755            | 1   | 39.390                       | Pass    |
|                  |         | 5795            | 1   | 39.889                       | Pass    |
| 802.11ac (VHT80) | SISO    | 5210            | 1   | 76.002                       | Pass    |
|                  |         | 5290            | 1   | 76.475                       | Pass    |
|                  |         | 5530            | 1   | 76.218                       | Pass    |
|                  |         | 5610            | 1   | 76.484                       | Pass    |
|                  |         | 5775            | 1   | 78.711                       | Pass    |



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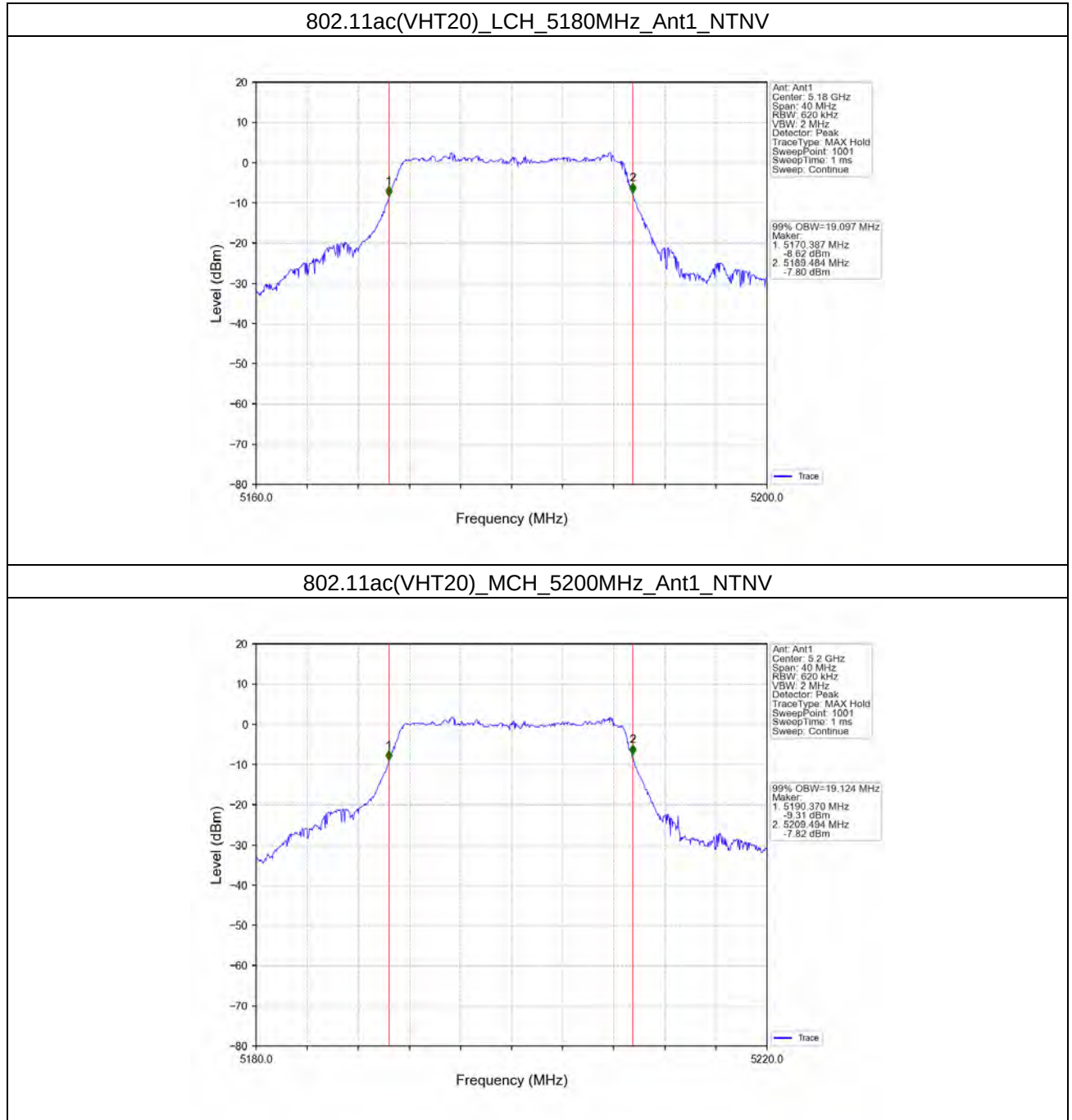
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### 2.1.2 Test Graph



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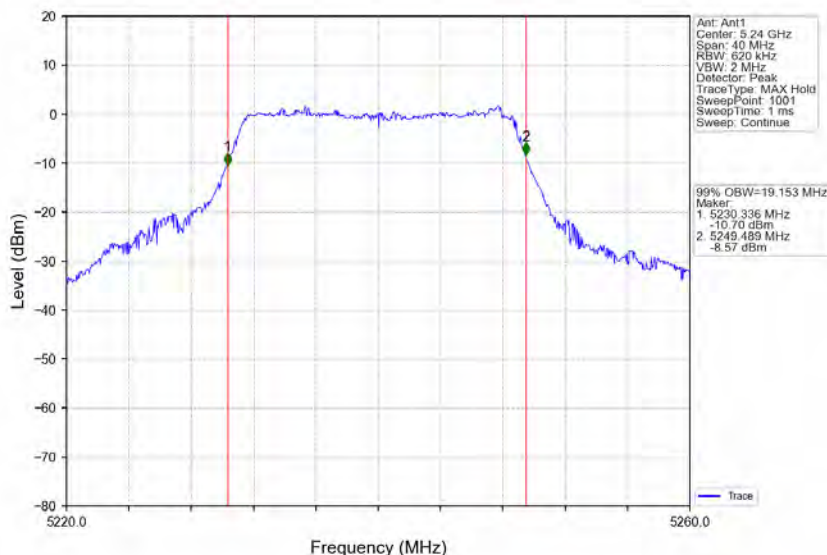
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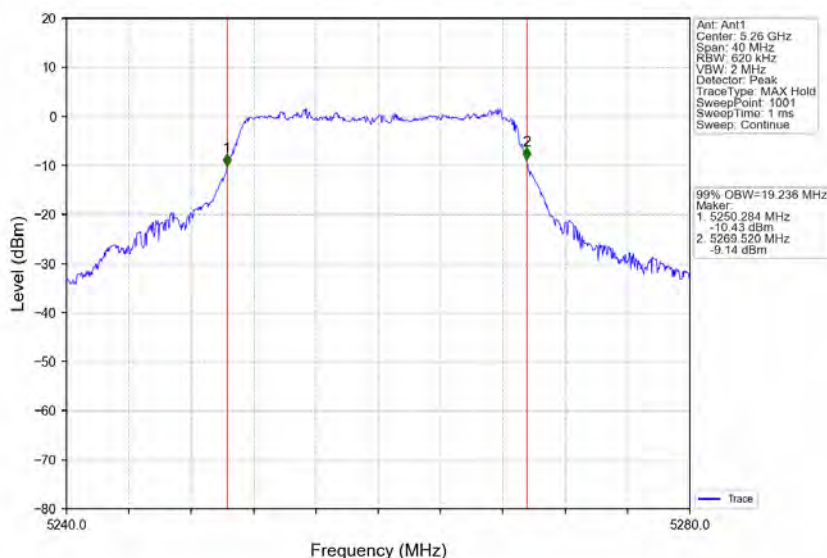
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802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



802.11ac(VHT20)\_LCH\_5260MHz\_Ant1\_NTNV



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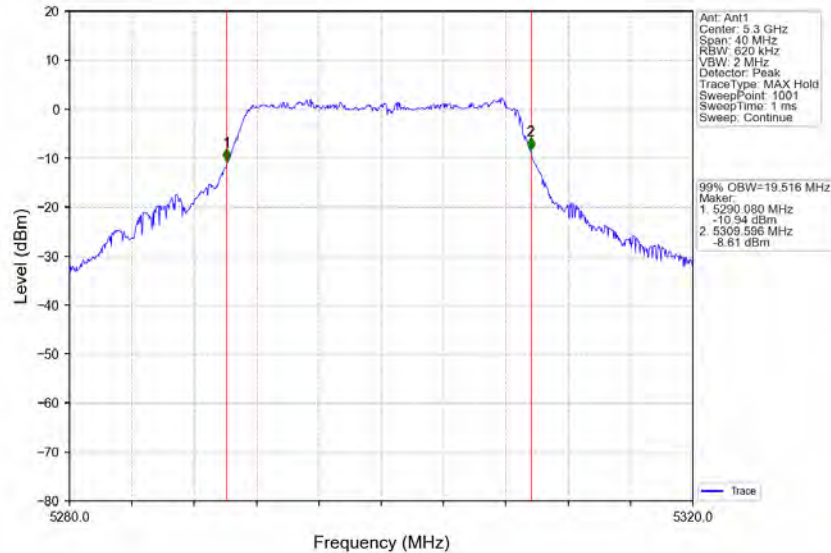
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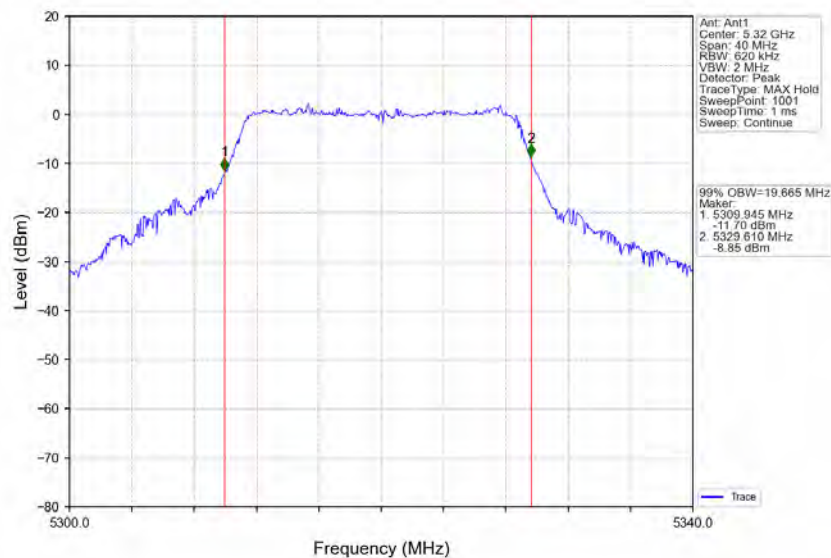
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802.11ac(VHT20)\_MCH\_5300MHz\_Ant1\_NTNV



802.11ac(VHT20)\_HCH\_5320MHz\_Ant1\_NTNV



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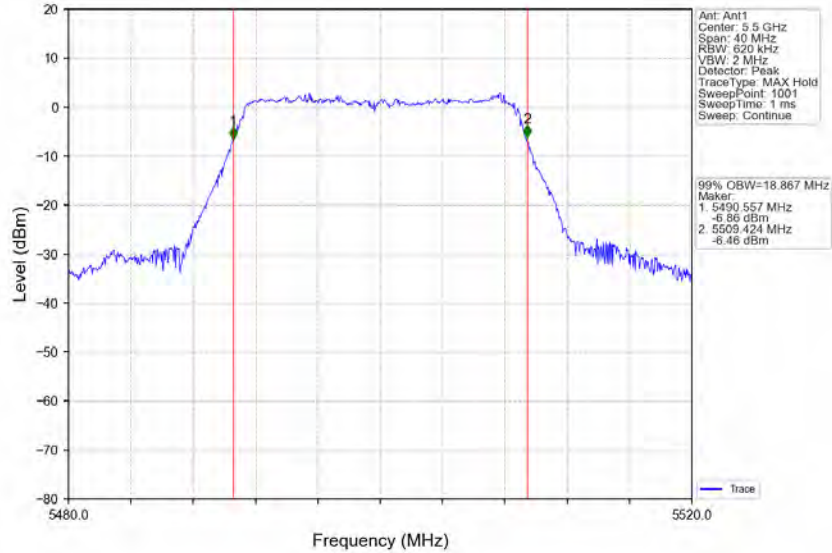
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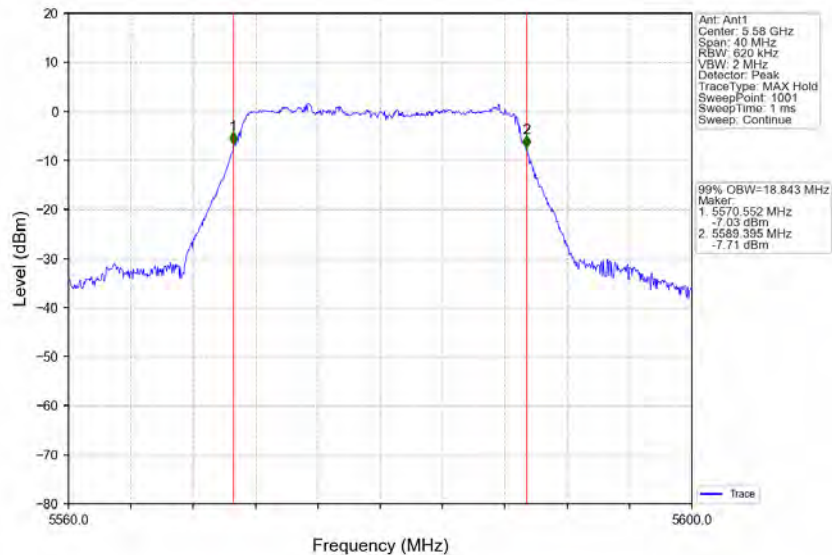
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802.11ac(VHT20)\_LCH\_5500MHz\_Ant1\_NTNV



802.11ac(VHT20)\_MCH\_5580MHz\_Ant1\_NTNV



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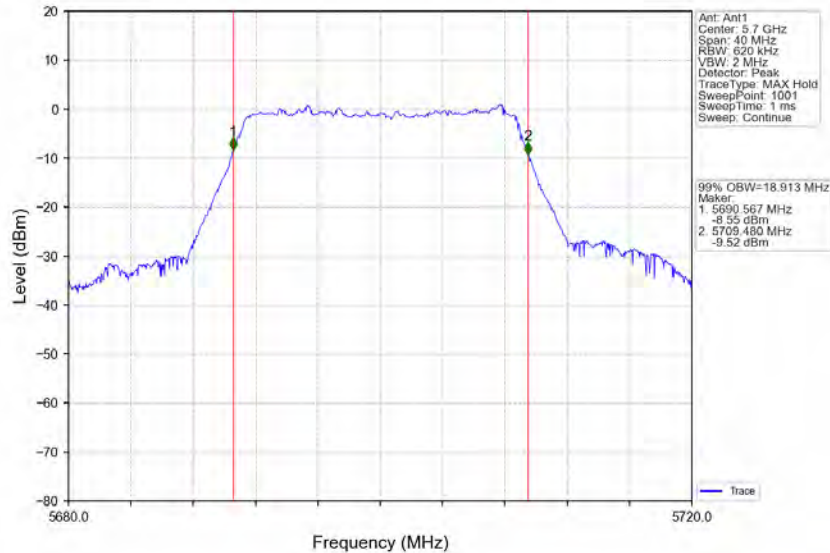
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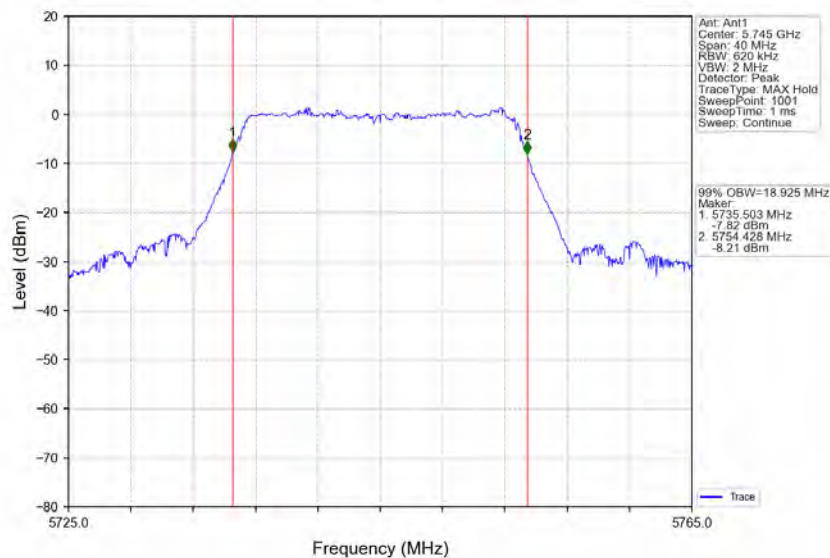
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802.11ac(VHT20)\_HCH\_5700MHz\_Ant1\_NTNV



802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



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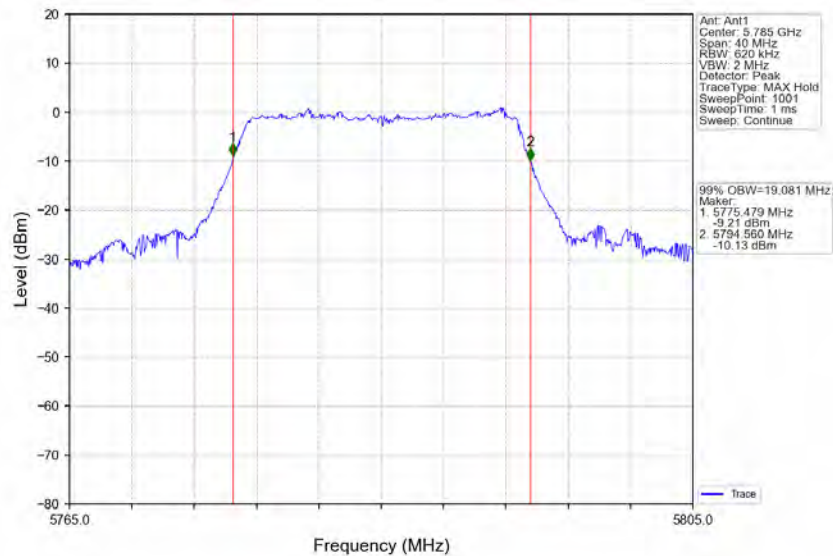
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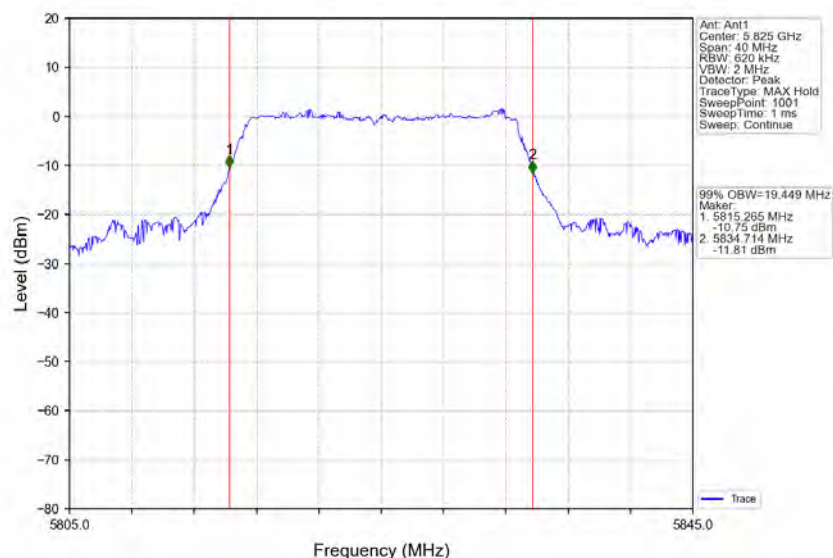
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802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



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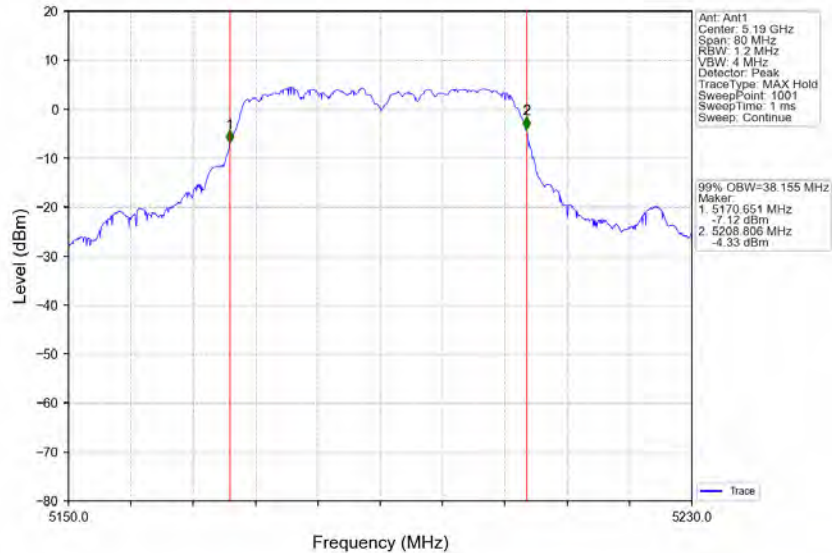
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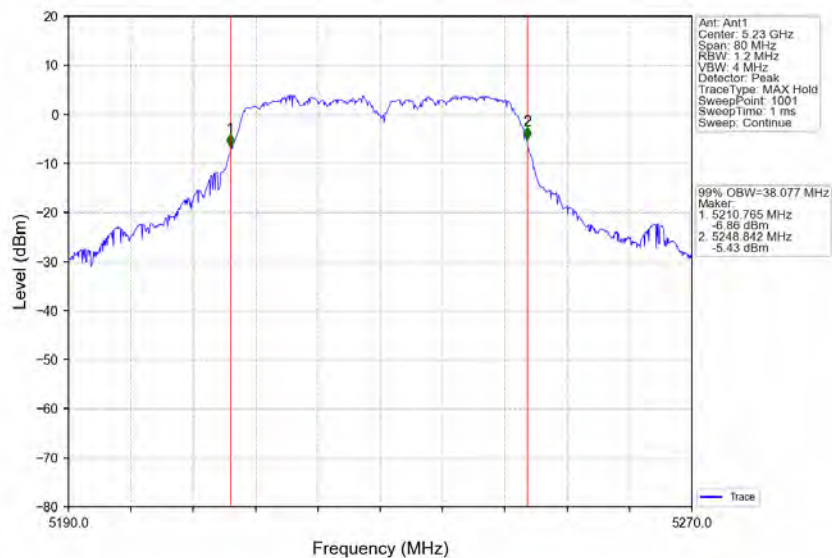
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802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



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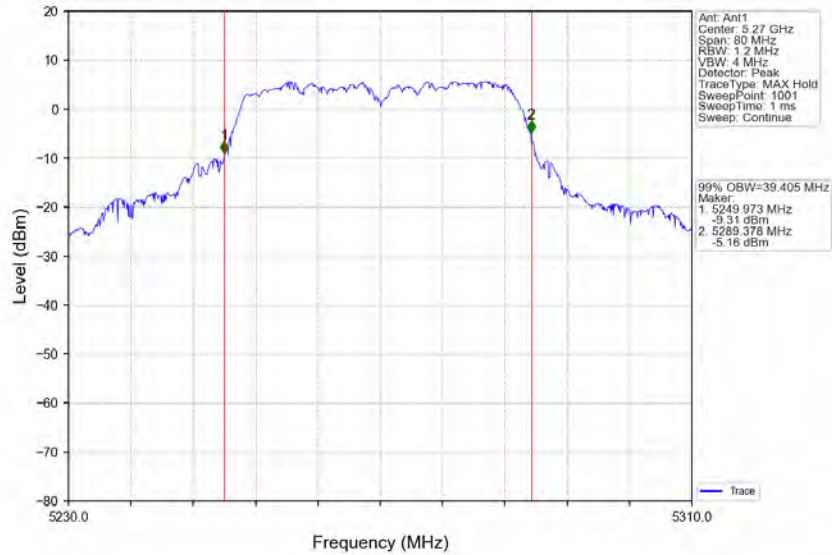
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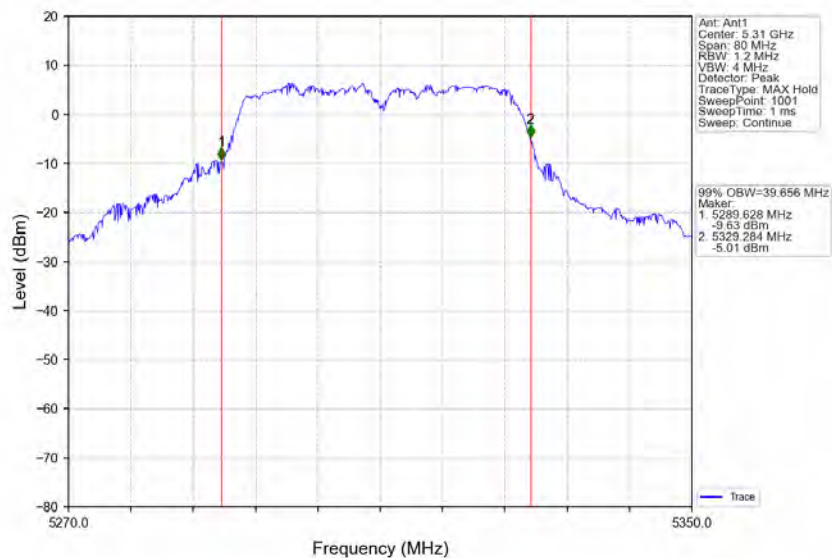
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802.11ac(VHT40)\_LCH\_5270MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5310MHz\_Ant1\_NTNV



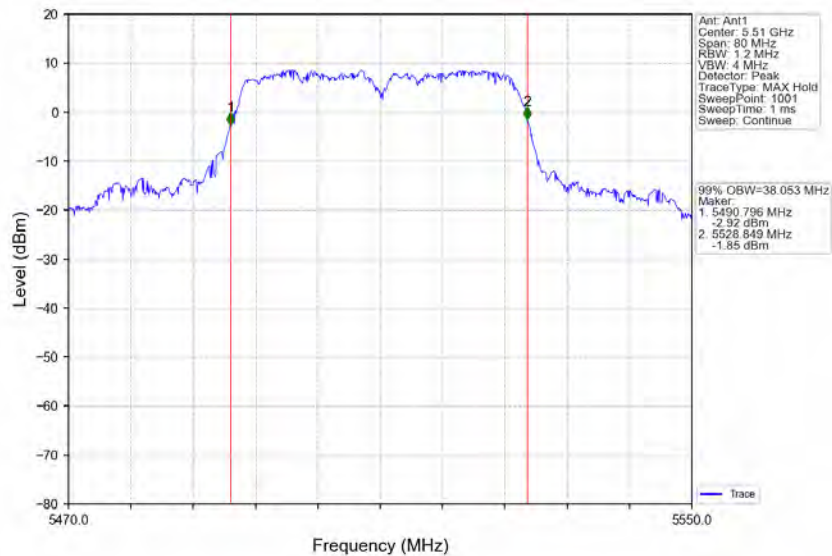
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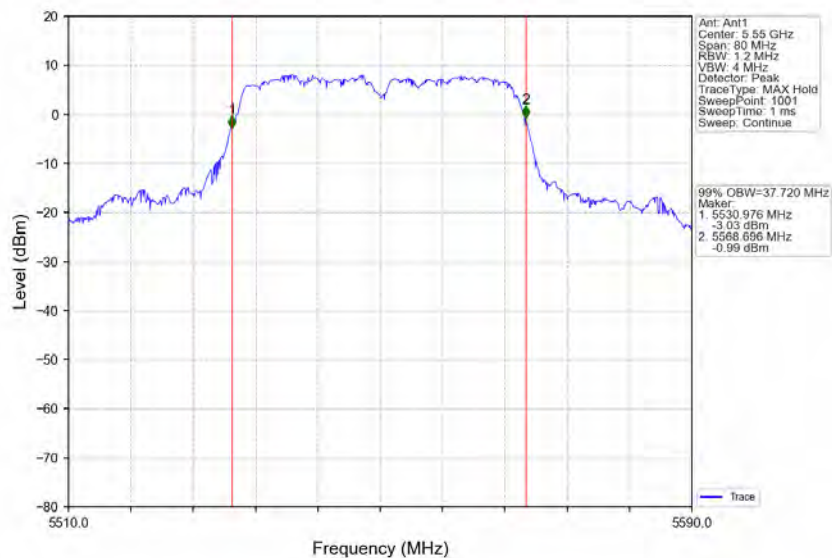
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802.11ac(VHT40)\_LCH\_5510MHz\_Ant1\_NTNV



802.11ac(VHT40)\_MCH\_5550MHz\_Ant1\_NTNV



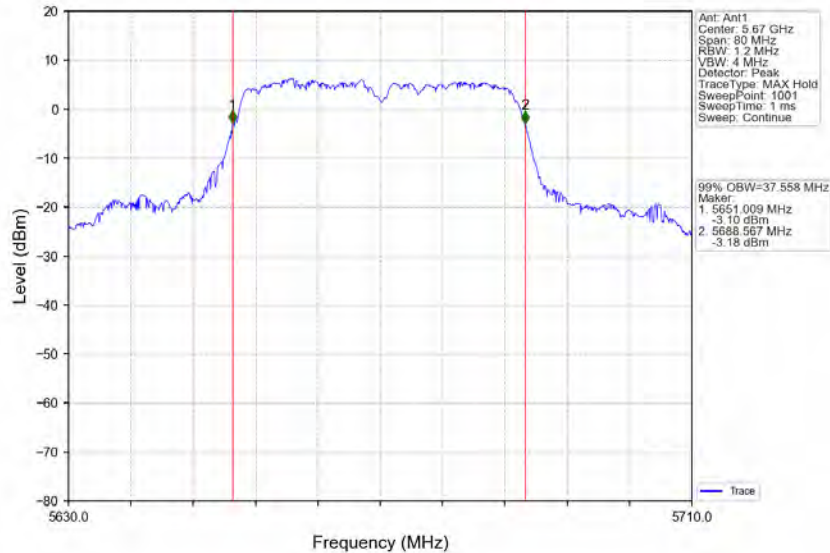
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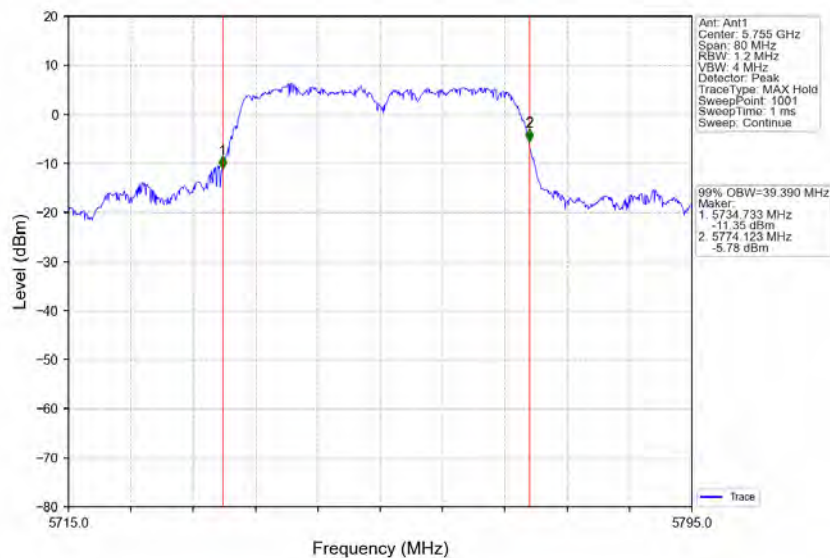
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802.11ac(VHT40)\_HCH\_5670MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



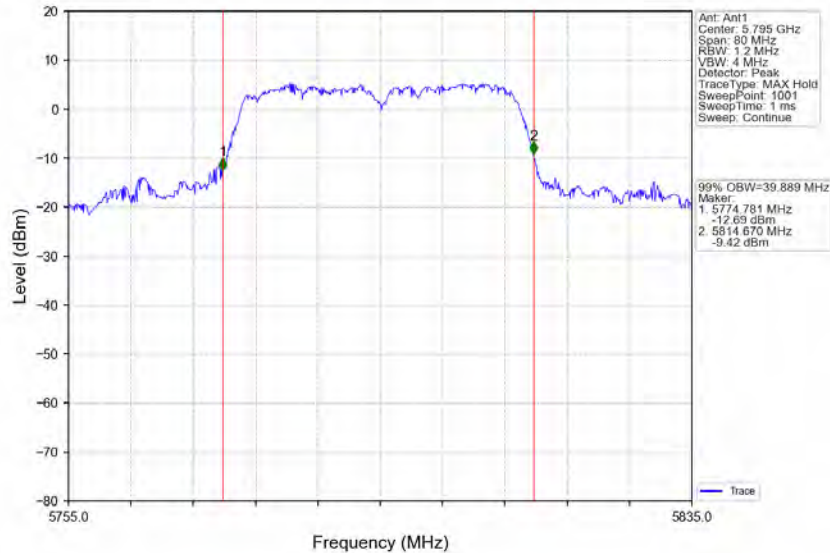
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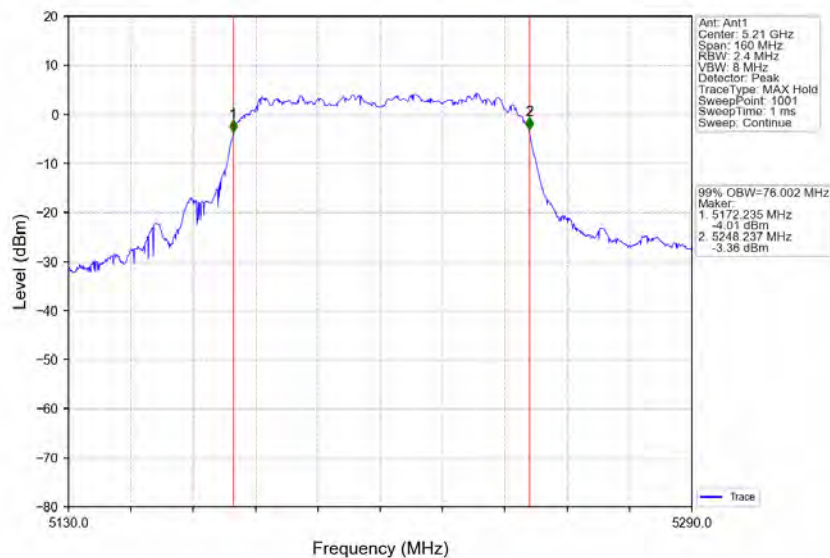
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802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



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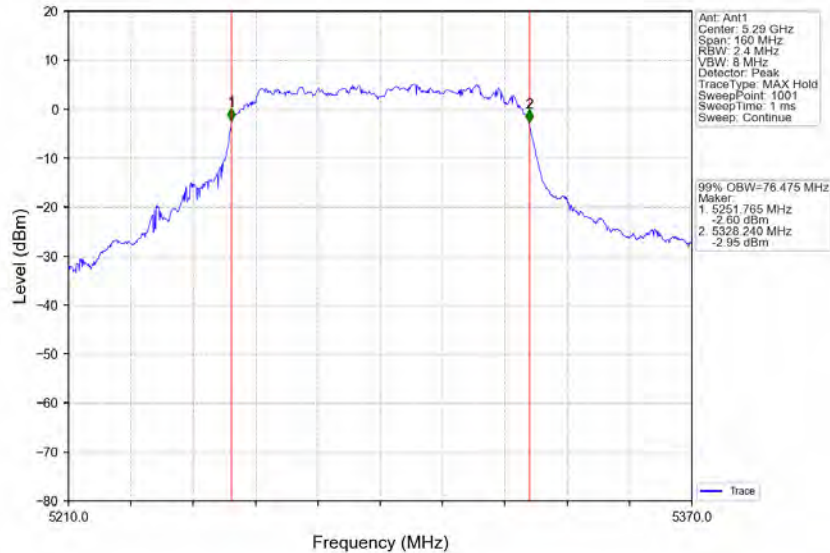
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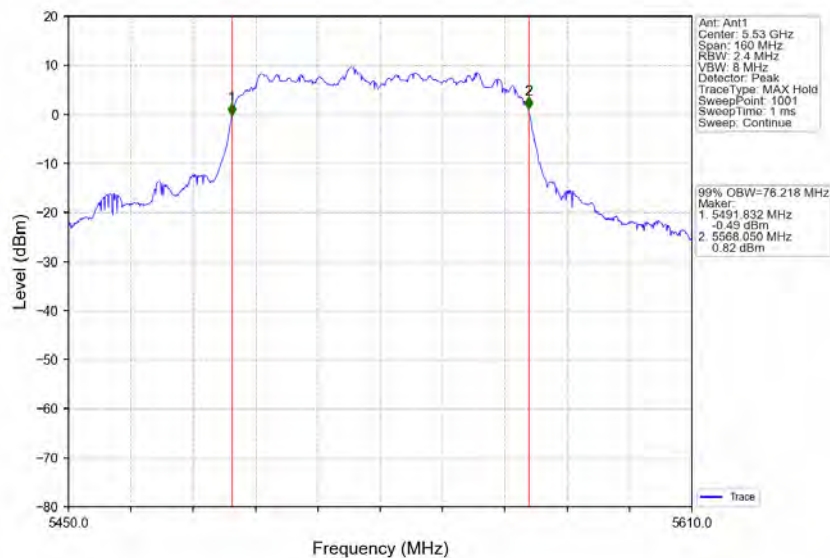
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802.11ac(VHT80)\_MCH\_5290MHz\_Ant1\_NTNV



802.11ac(VHT80)\_LCH\_5530MHz\_Ant1\_NTNV



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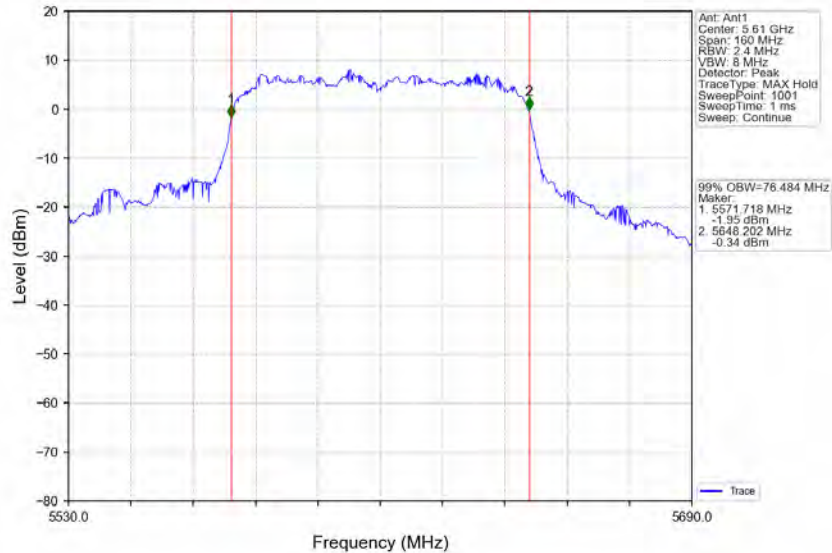
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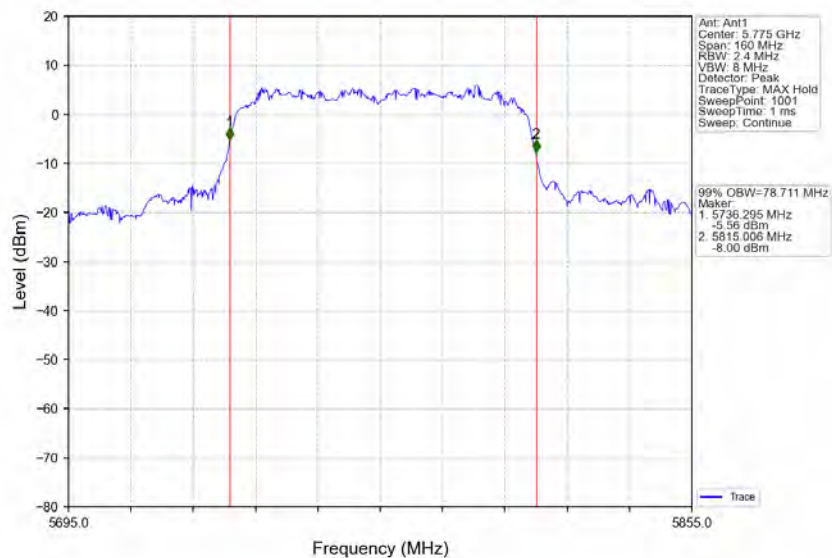
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802.11ac(VHT80)\_HCH\_5610MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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### 2.2 6dB BW

#### 2.2.1 Test Result

| Mode             | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------------------|---------|-----------------|-----|---------------------|------------|---------|
|                  |         |                 |     | Result              | Limit      |         |
| 802.11ac (VHT20) | SISO    | 5745            | 1   | 17.595              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 17.616              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 17.618              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT40) | SISO    | 5755            | 1   | 35.194              | $\geq 0.5$ | Pass    |
|                  |         | 5795            | 1   | 35.185              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT80) | SISO    | 5775            | 1   | 75.151              | $\geq 0.5$ | Pass    |



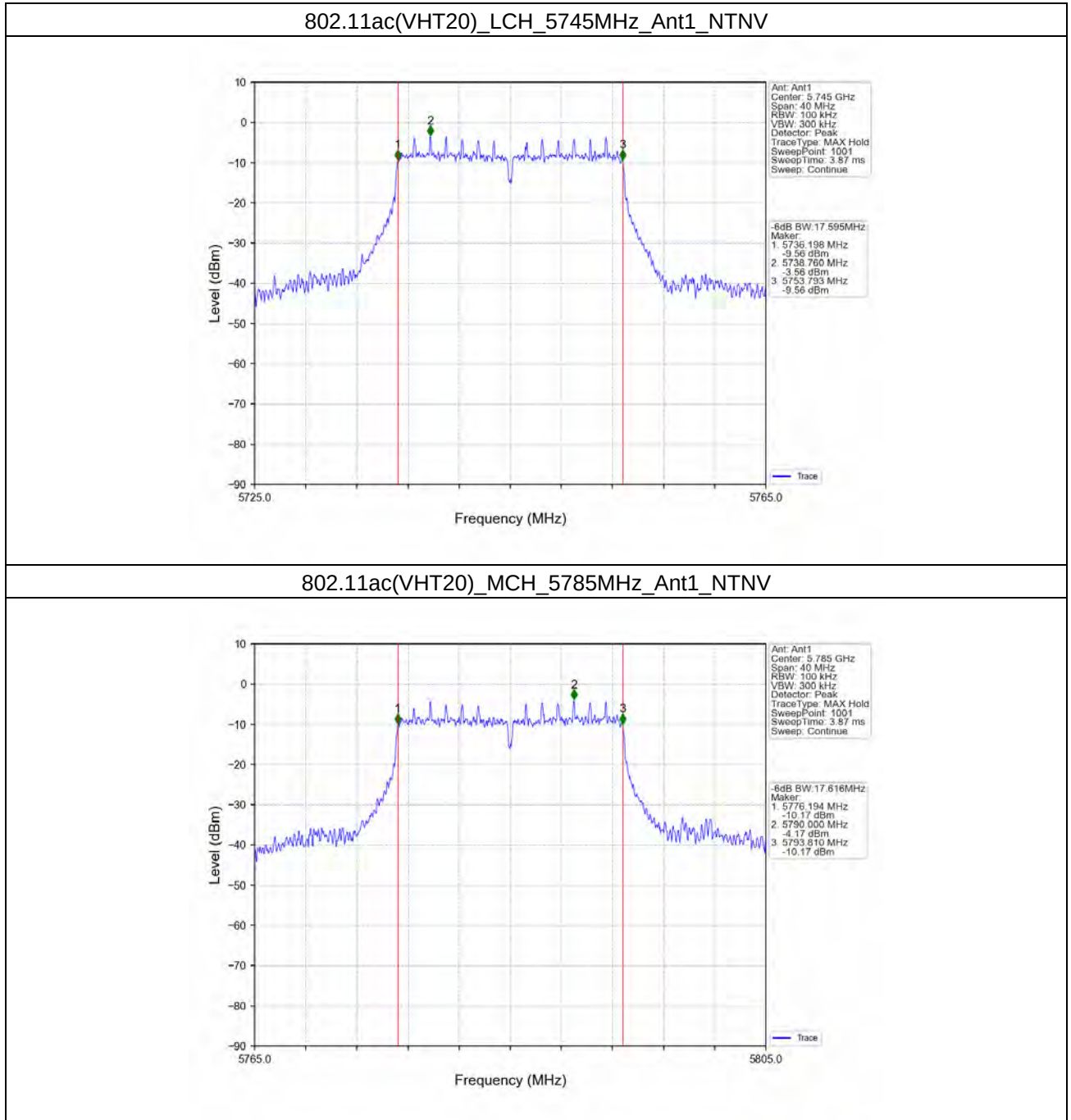
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### 2.2.2 Test Graph



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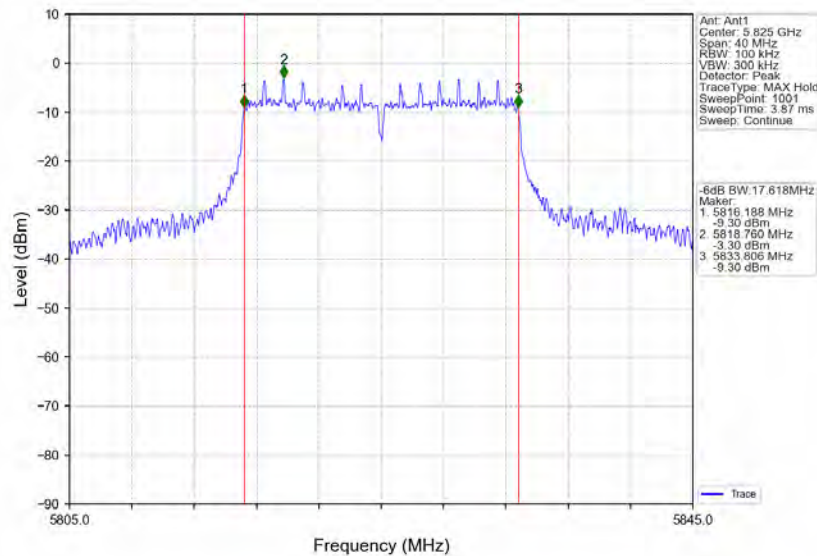
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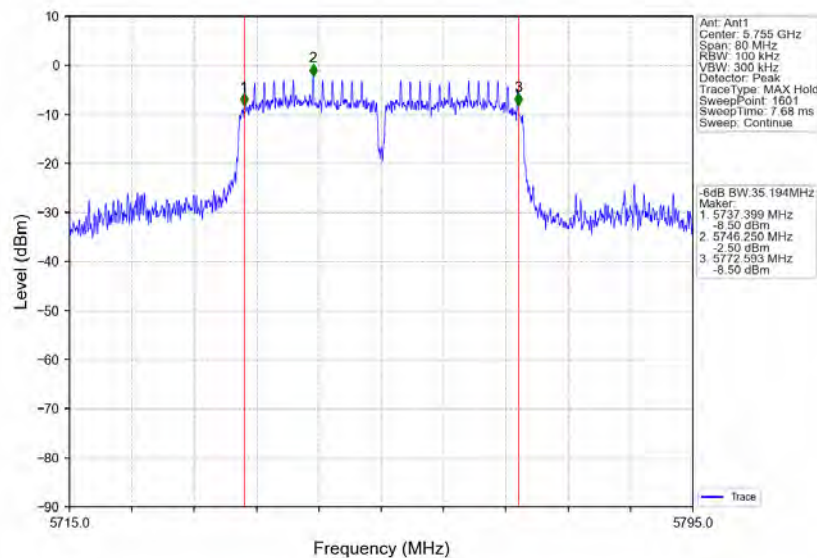
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802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



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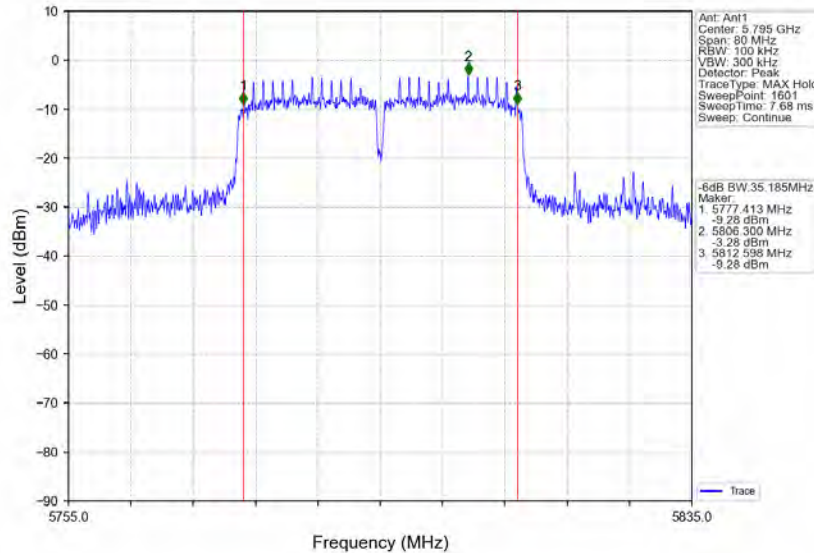
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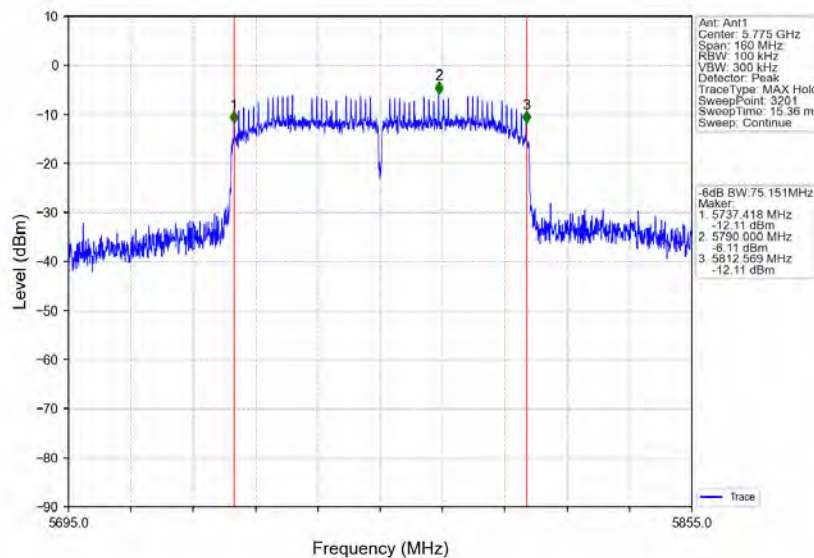
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802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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### 2.3 26dB BW

#### 2.3.1 Test Result

| Mode             | TX Type | Frequency (MHz) | ANT | 26dB Bandwidth (MHz) | Verdict |
|------------------|---------|-----------------|-----|----------------------|---------|
|                  |         |                 |     | Result               |         |
| 802.11ac (VHT20) | SISO    | 5180            | 1   | 27.637               | Pass    |
|                  |         | 5200            | 1   | 27.464               | Pass    |
|                  |         | 5240            | 1   | 28.382               | Pass    |
|                  |         | 5260            | 1   | 28.516               | Pass    |
|                  |         | 5300            | 1   | 29.349               | Pass    |
|                  |         | 5320            | 1   | 30.260               | Pass    |
|                  |         | 5500            | 1   | 23.346               | Pass    |
|                  |         | 5580            | 1   | 23.335               | Pass    |
|                  |         | 5700            | 1   | 23.421               | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | 1   | 70.594               | Pass    |
|                  |         | 5230            | 1   | 53.747               | Pass    |
|                  |         | 5270            | 1   | 71.247               | Pass    |
|                  |         | 5310            | 1   | 65.500               | Pass    |
|                  |         | 5510            | 1   | 72.978               | Pass    |
|                  |         | 5550            | 1   | 71.533               | Pass    |
|                  |         | 5670            | 1   | 70.947               | Pass    |
| 802.11ac (VHT80) | SISO    | 5210            | 1   | 99.423               | Pass    |
|                  |         | 5290            | 1   | 109.841              | Pass    |
|                  |         | 5530            | 1   | 120.162              | Pass    |
|                  |         | 5610            | 1   | 122.768              | Pass    |



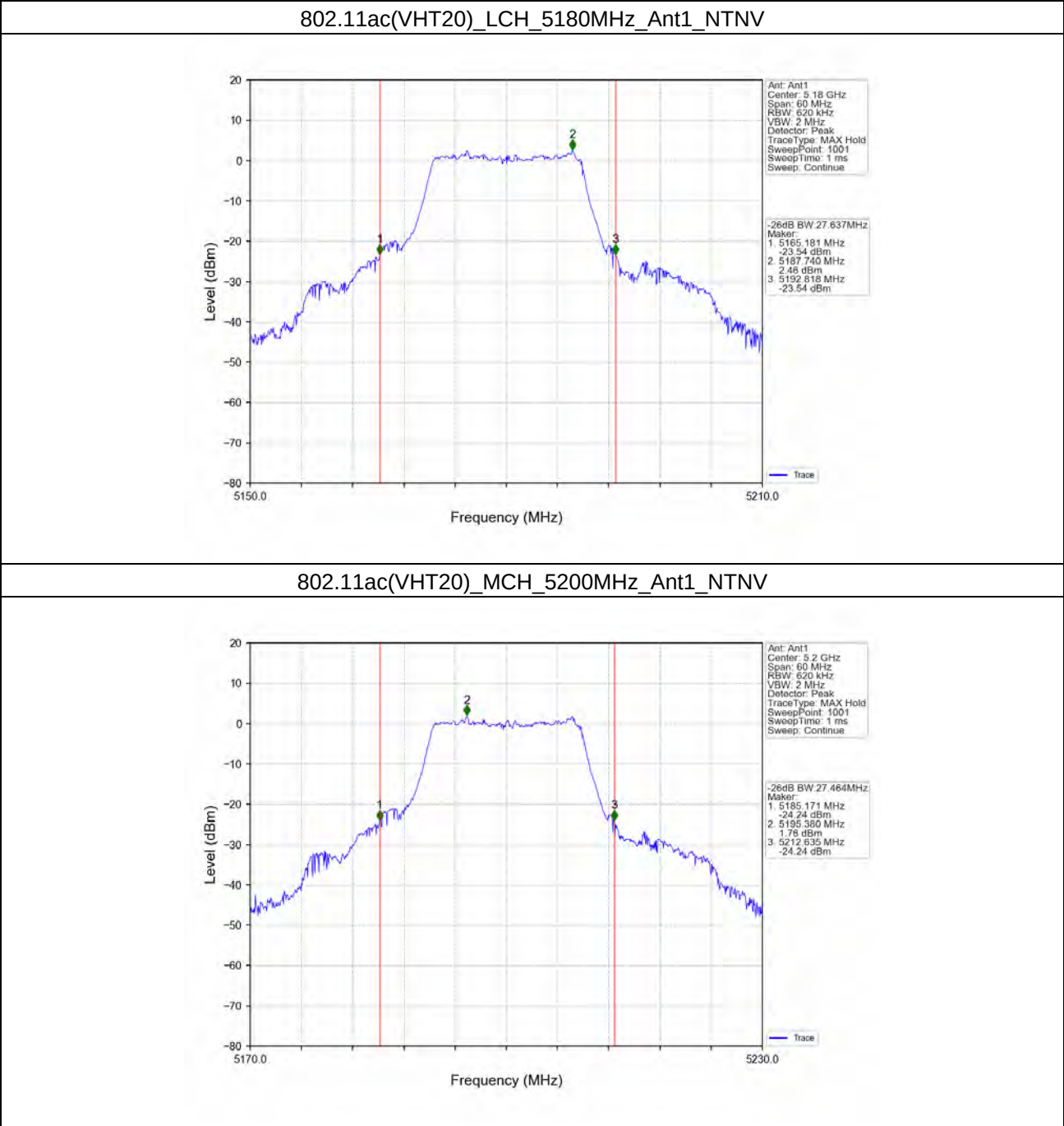
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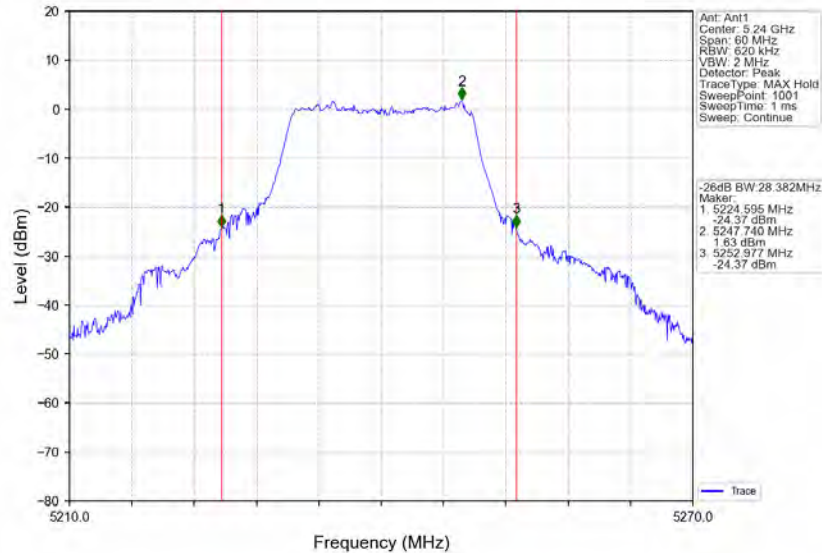
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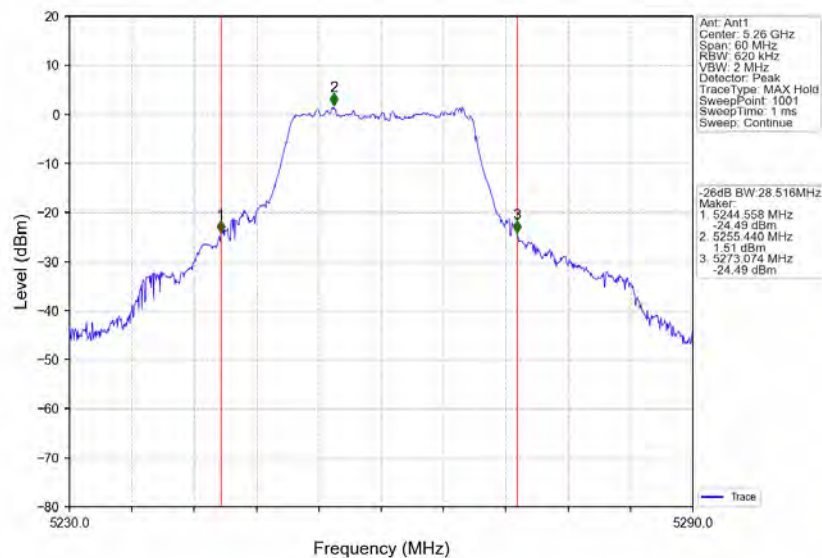
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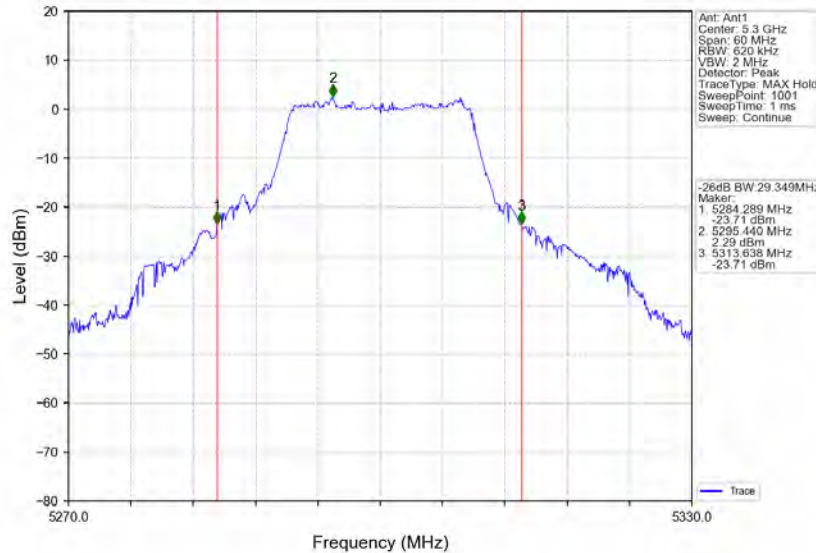
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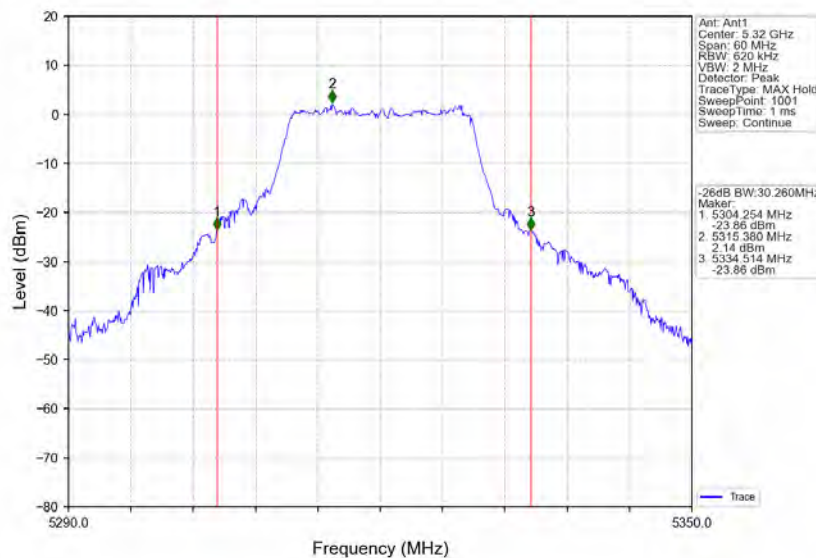
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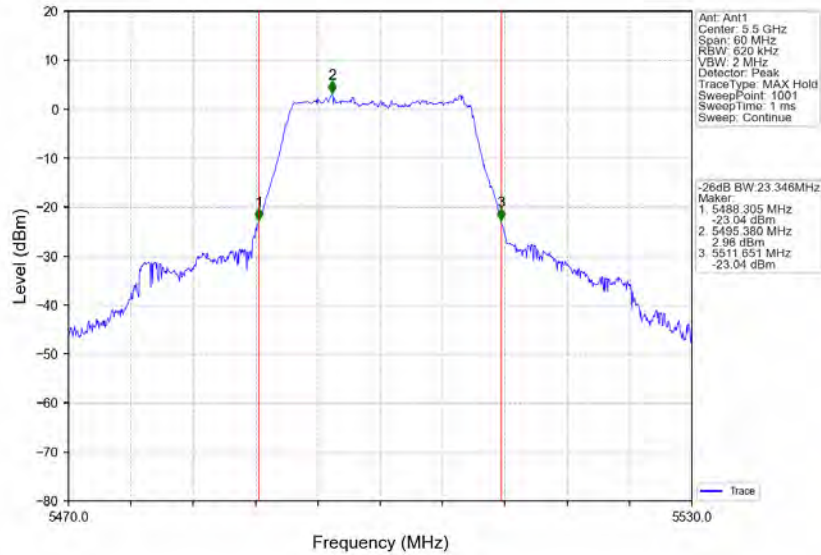
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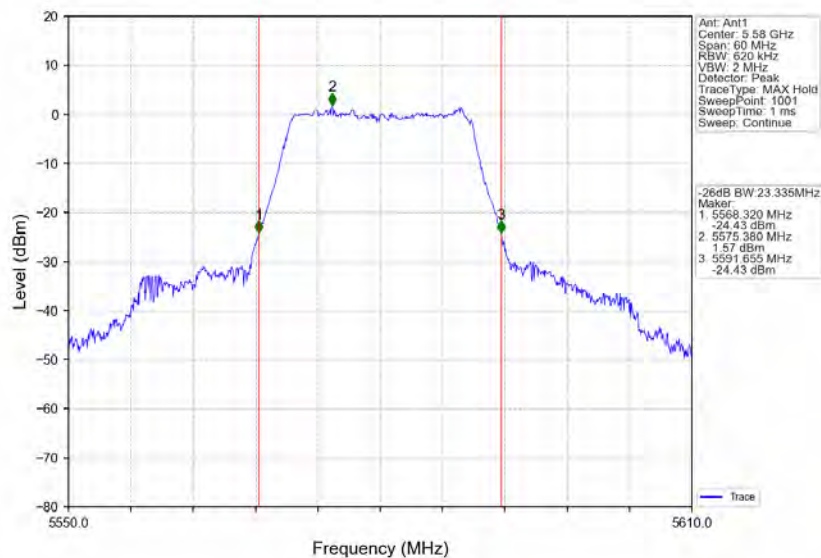
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802.11ac(VHT20)\_MCH\_5580MHz\_Ant1\_NTNV



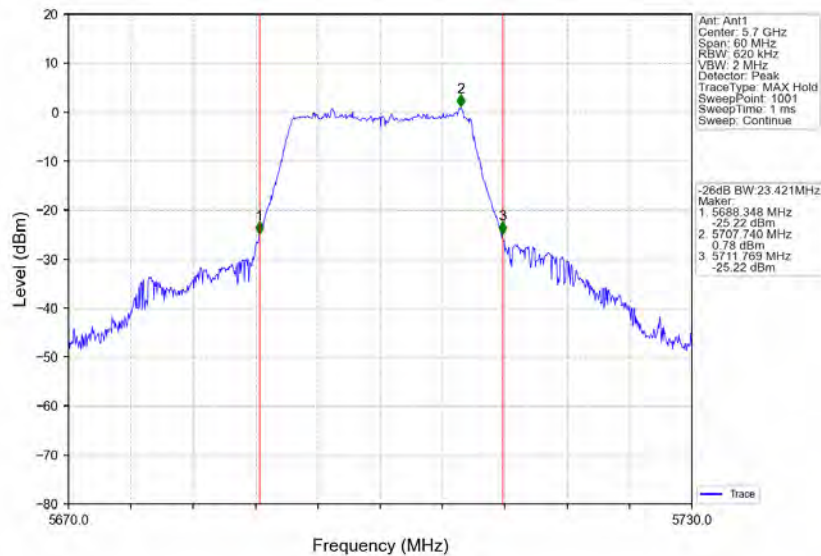
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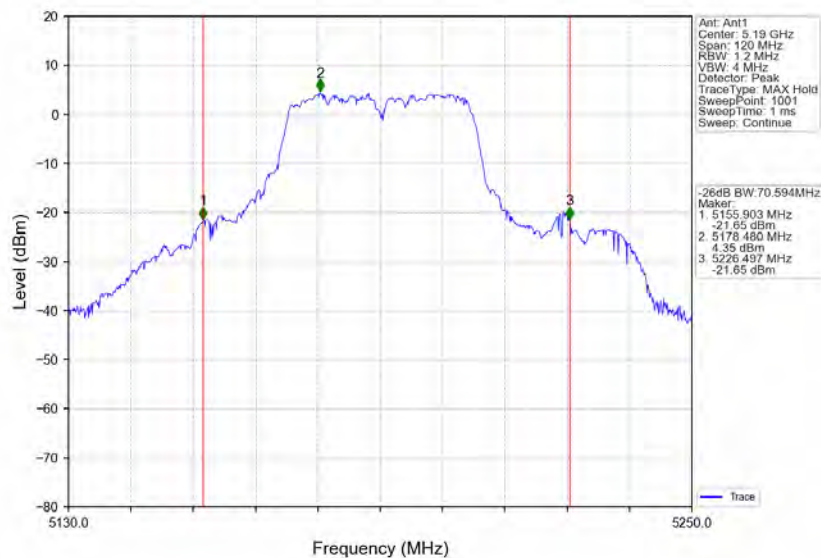
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802.11ac(VHT20)\_HCH\_5700MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



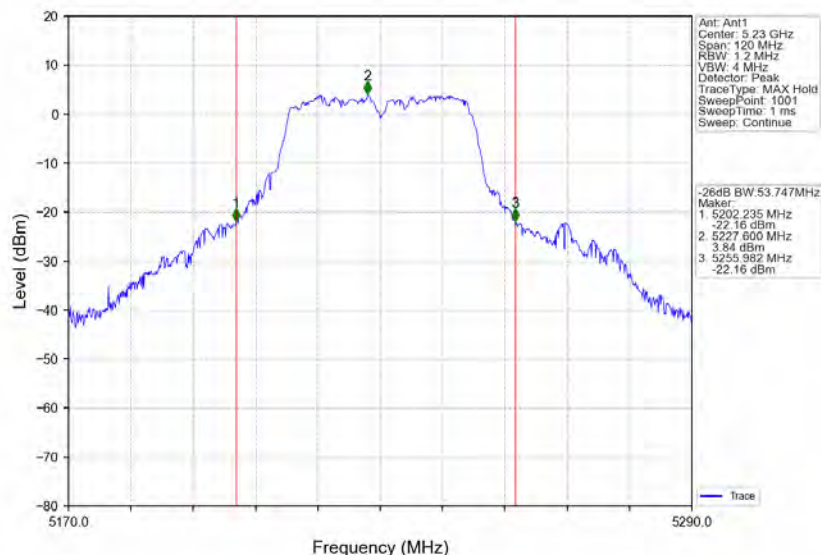
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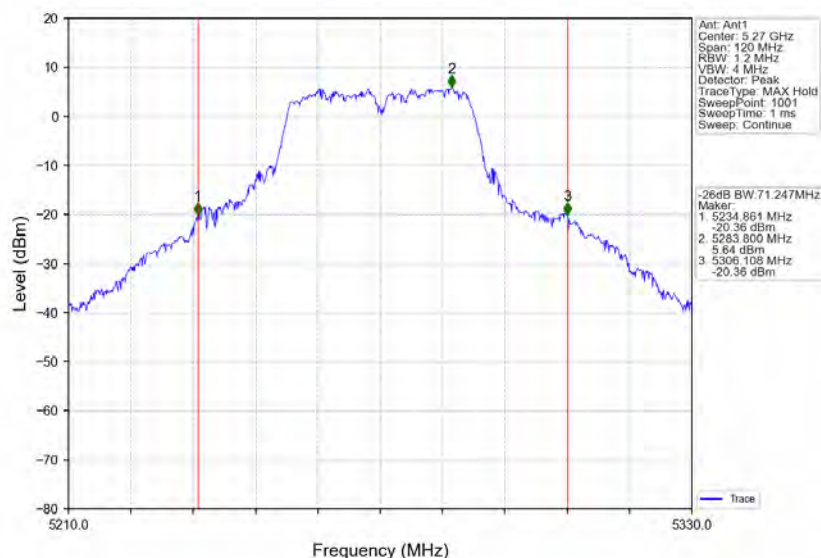
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802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5270MHz\_Ant1\_NTNV



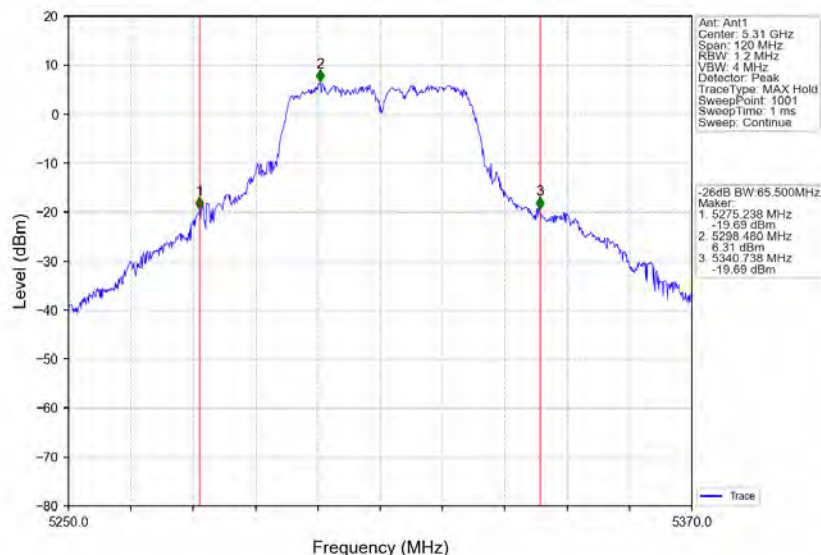
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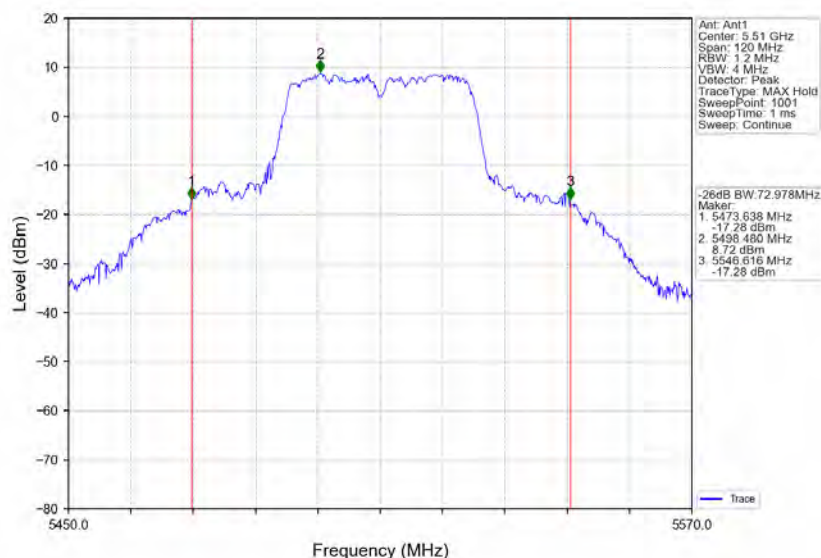
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### 802.11ac(VHT40)\_HCH\_5310MHz\_Ant1\_NTNV



### 802.11ac(VHT40)\_LCH\_5510MHz\_Ant1\_NTNV



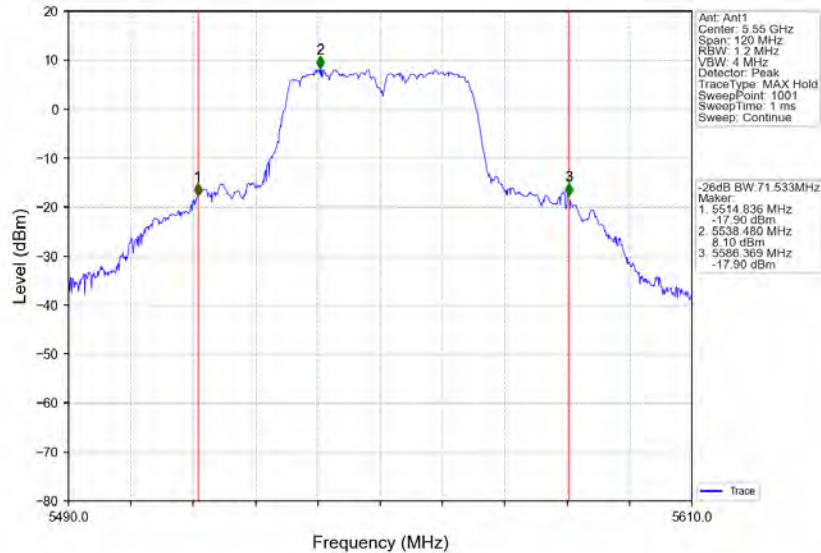
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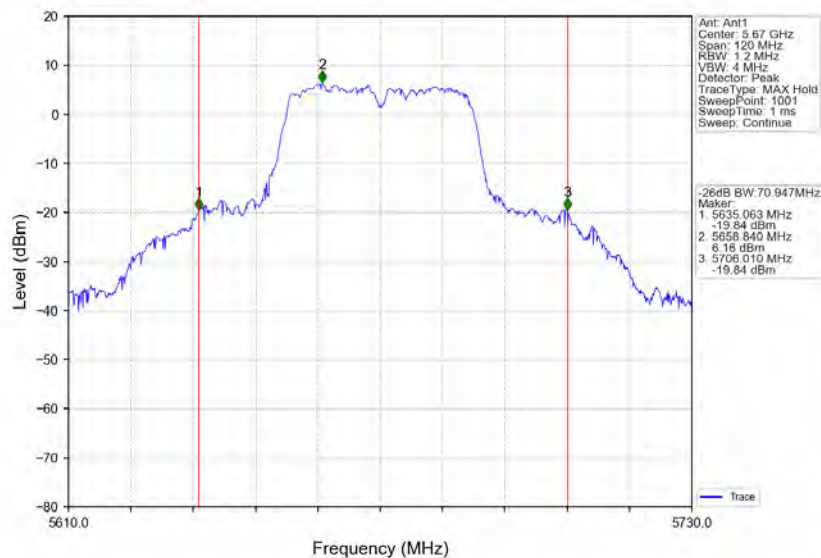
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802.11ac(VHT40)\_MCH\_5550MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5670MHz\_Ant1\_NTNV



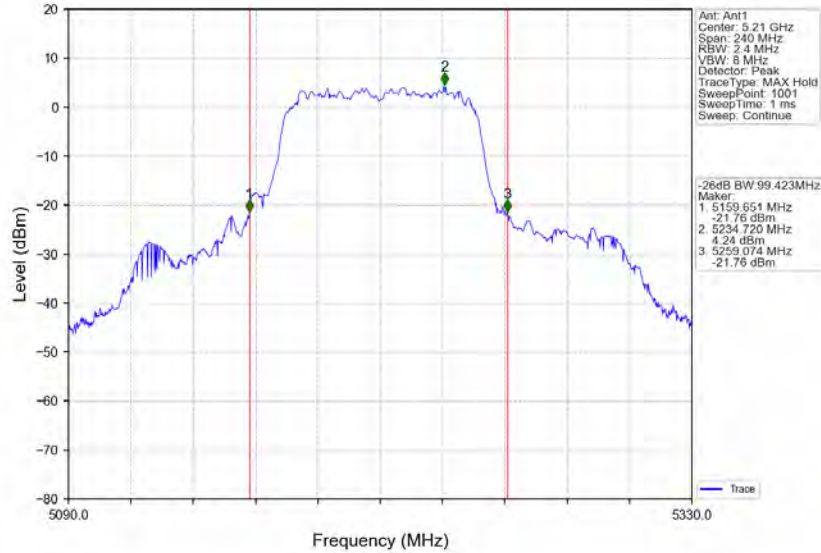
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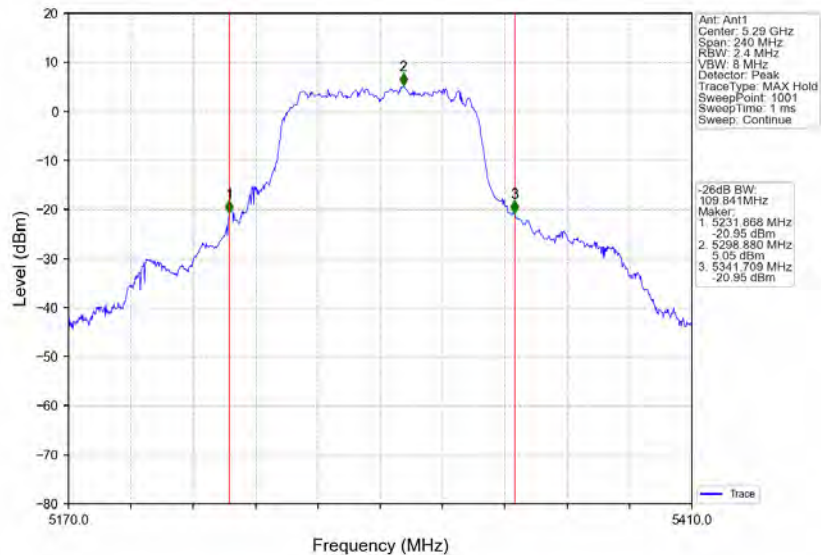
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802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5290MHz\_Ant1\_NTNV



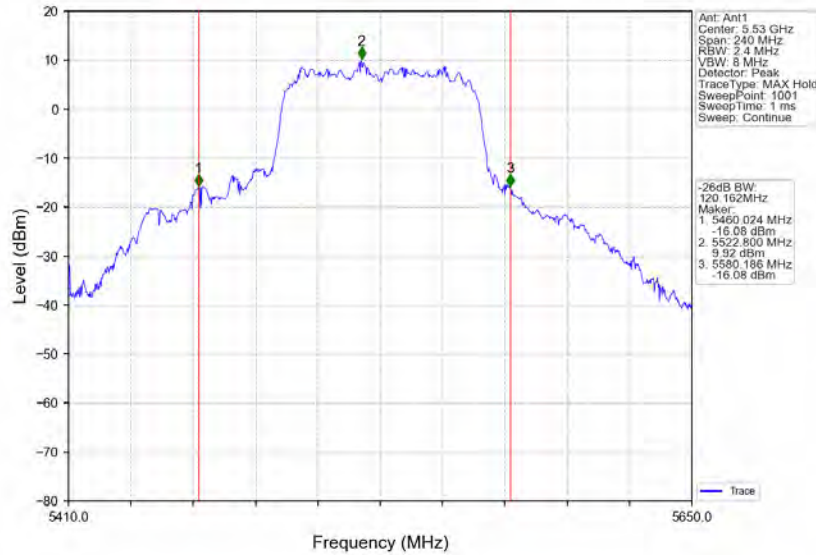
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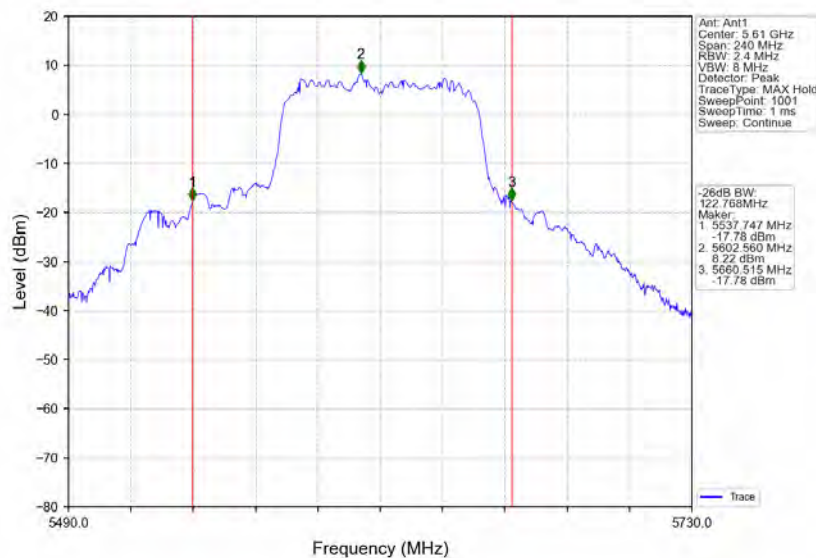
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802.11ac(VHT80)\_LCH\_5530MHz\_Ant1\_NTNV



802.11ac(VHT80)\_HCH\_5610MHz\_Ant1\_NTNV



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## 3. Maximum Conducted Output Power

### 3.1 Power

#### 3.1.1 Test Result

| Mode             | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |              | Verdict |
|------------------|---------|-----------------|----------------------------------------------|--------------|---------|
|                  |         |                 | ANT1                                         | Limit        |         |
| 802.11ac (VHT20) | SISO    | 5180            | 13.46                                        | $\leq 23.98$ | Pass    |
|                  |         | 5200            | 13.20                                        | $\leq 23.98$ | Pass    |
|                  |         | 5240            | 12.86                                        | $\leq 23.98$ | Pass    |
|                  |         | 5260            | 12.51                                        | $\leq 23.98$ | Pass    |
|                  |         | 5300            | 13.23                                        | $\leq 23.98$ | Pass    |
|                  |         | 5320            | 13.26                                        | $\leq 23.98$ | Pass    |
|                  |         | 5500            | 13.10                                        | $\leq 23.98$ | Pass    |
|                  |         | 5580            | 13.62                                        | $\leq 23.98$ | Pass    |
|                  |         | 5700            | 13.13                                        | $\leq 23.98$ | Pass    |
|                  |         | 5745            | 13.09                                        | $\leq 30$    | Pass    |
|                  |         | 5785            | 12.47                                        | $\leq 30$    | Pass    |
|                  |         | 5825            | 12.07                                        | $\leq 30$    | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | 13.19                                        | $\leq 23.98$ | Pass    |
|                  |         | 5230            | 12.98                                        | $\leq 23.98$ | Pass    |
|                  |         | 5270            | 12.69                                        | $\leq 23.98$ | Pass    |
|                  |         | 5310            | 12.64                                        | $\leq 23.98$ | Pass    |
|                  |         | 5510            | 12.22                                        | $\leq 23.98$ | Pass    |
|                  |         | 5550            | 12.99                                        | $\leq 23.98$ | Pass    |
|                  |         | 5670            | 12.88                                        | $\leq 23.98$ | Pass    |
|                  |         | 5755            | 12.94                                        | $\leq 30$    | Pass    |
| 802.11ac (VHT80) | SISO    | 5795            | 12.41                                        | $\leq 30$    | Pass    |
|                  |         | 5210            | 12.77                                        | $\leq 23.98$ | Pass    |
|                  |         | 5290            | 13.21                                        | $\leq 23.98$ | Pass    |
|                  |         | 5530            | 12.10                                        | $\leq 23.98$ | Pass    |
|                  |         | 5610            | 12.04                                        | $\leq 23.98$ | Pass    |
|                  |         | 5775            | 10.39                                        | $\leq 30$    | Pass    |

Note1: Antenna Gain: Ant1: 1.00dBi;



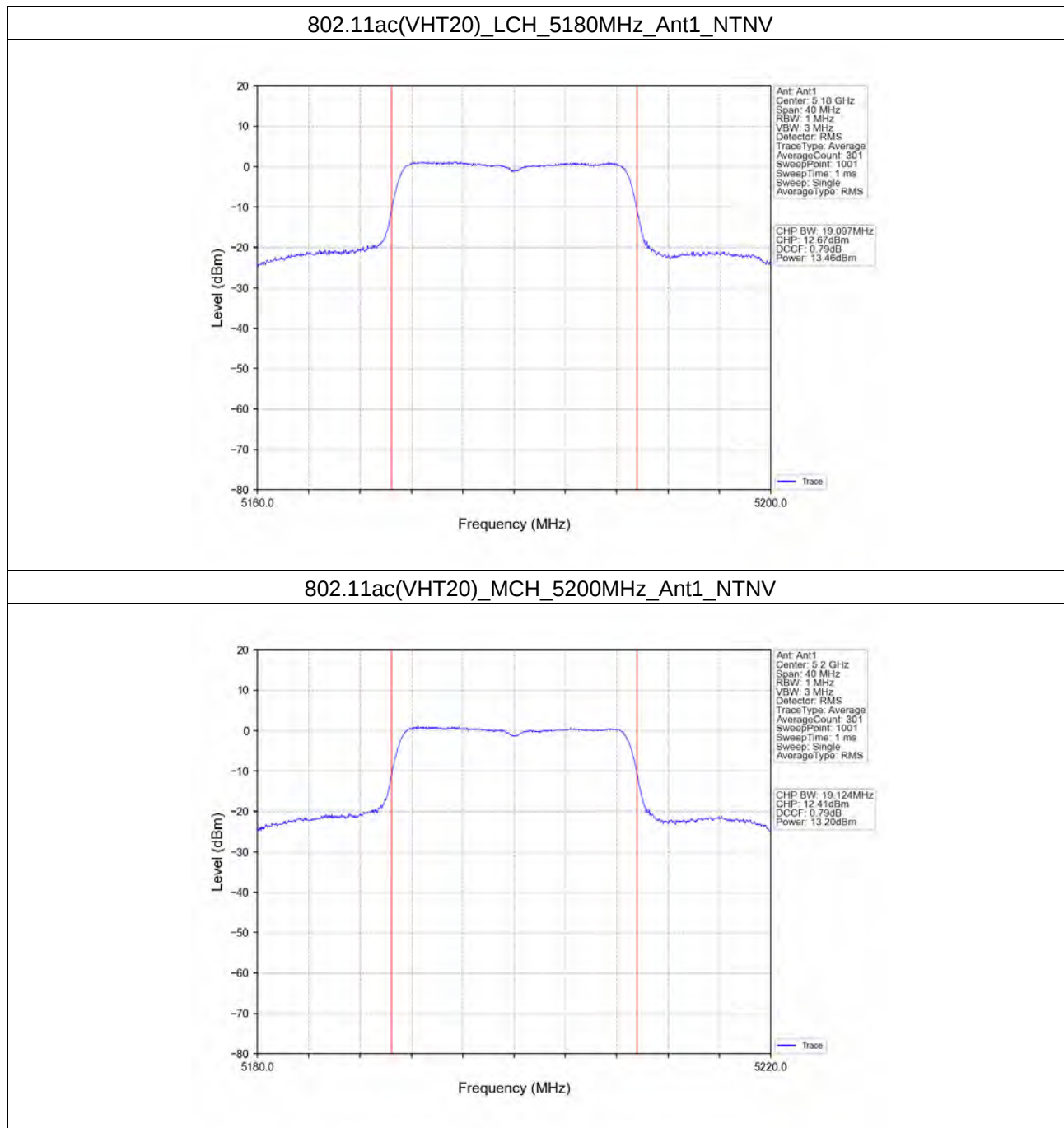
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### 3.1.2 Test Graph



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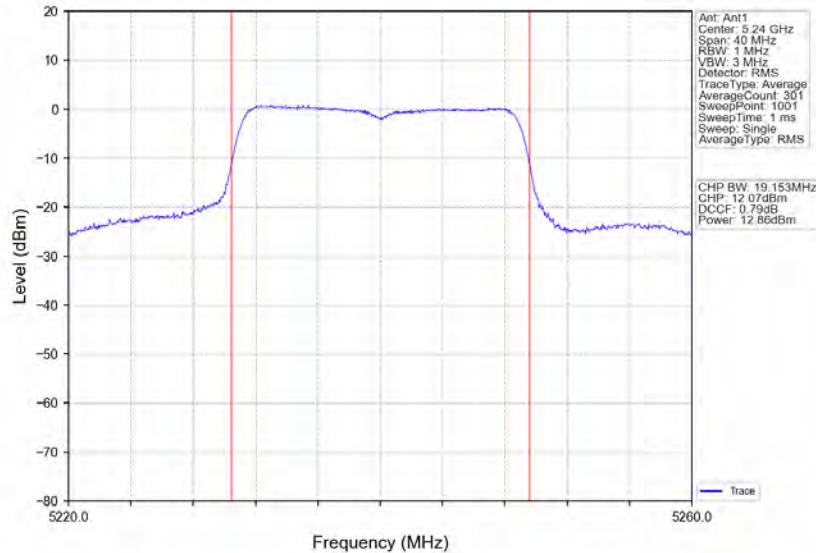
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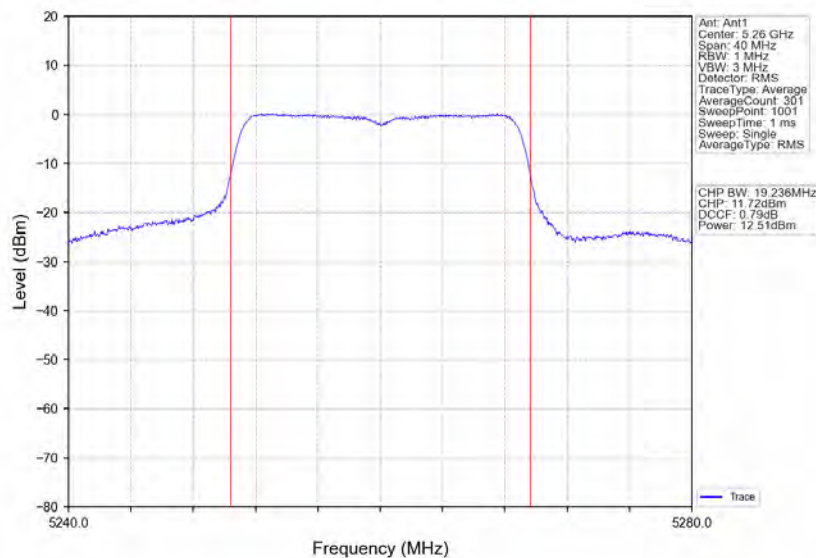
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802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



802.11ac(VHT20)\_LCH\_5260MHz\_Ant1\_NTNV



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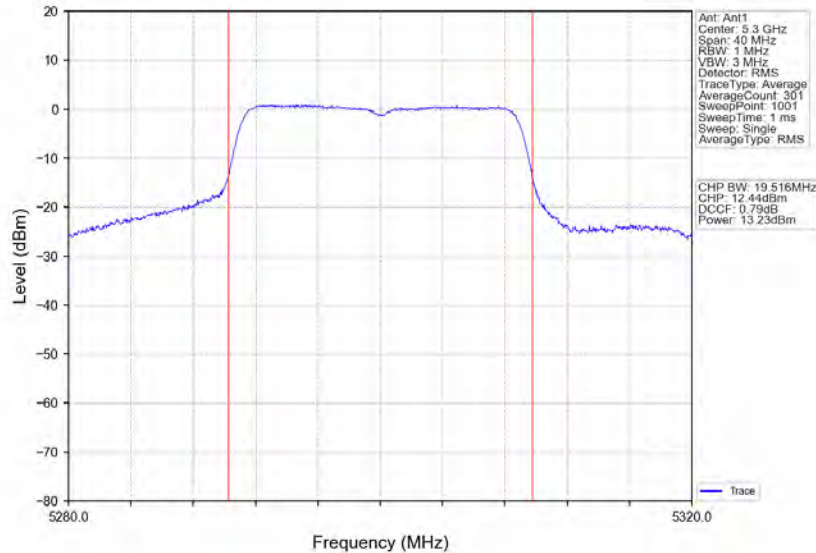
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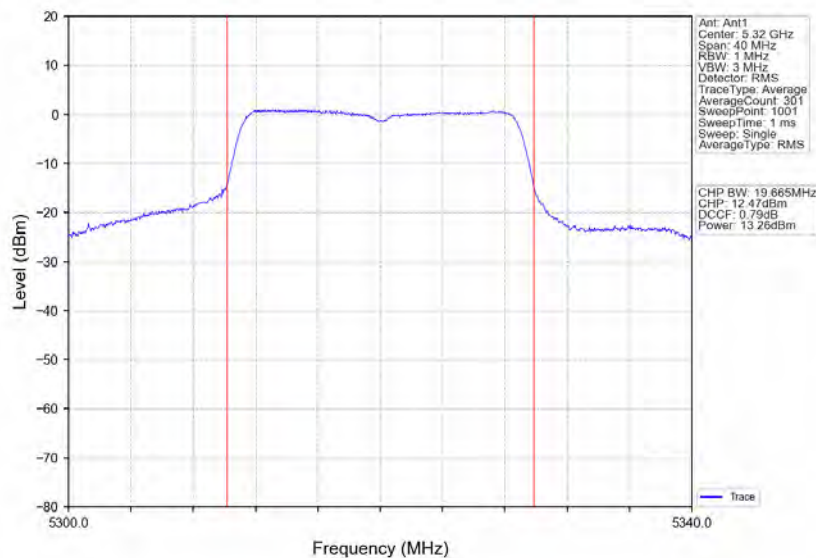
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802.11ac(VHT20)\_MCH\_5300MHz\_Ant1\_NTNV



802.11ac(VHT20)\_HCH\_5320MHz\_Ant1\_NTNV



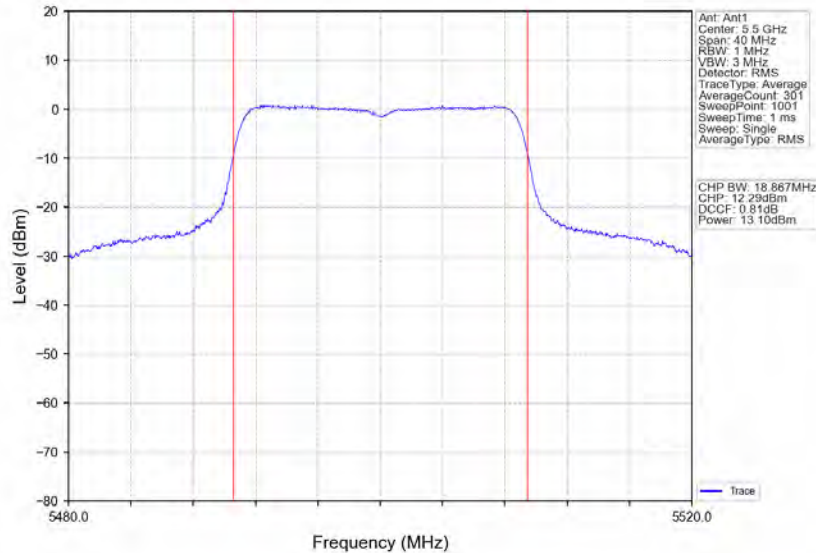
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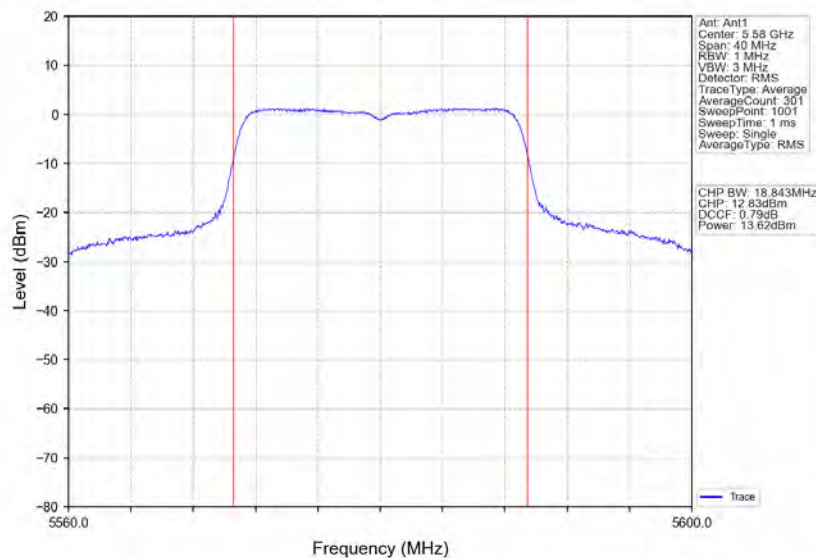
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802.11ac(VHT20)\_LCH\_5500MHz\_Ant1\_NTNV



802.11ac(VHT20)\_MCH\_5580MHz\_Ant1\_NTNV



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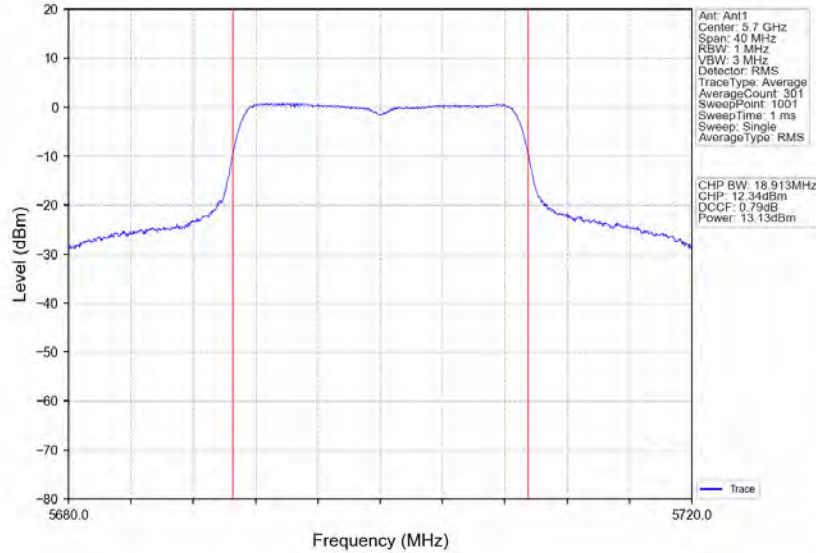
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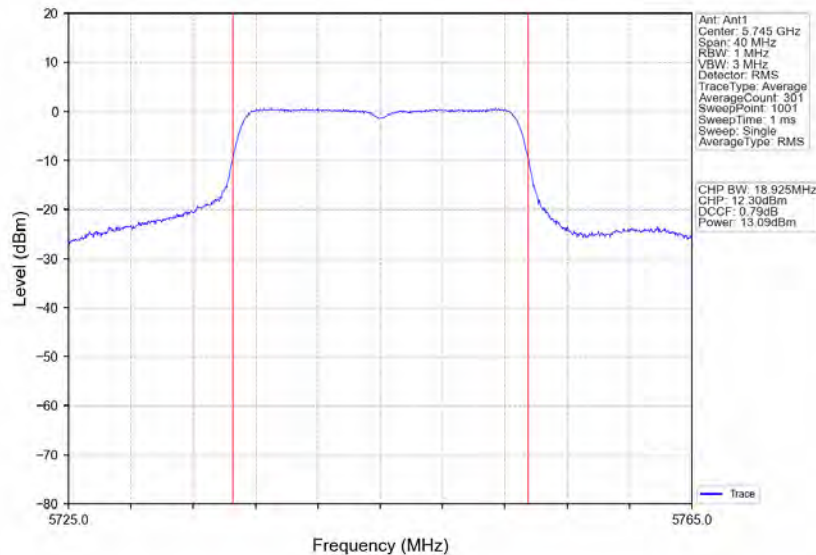
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802.11ac(VHT20)\_HCH\_5700MHz\_Ant1\_NTNV



802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



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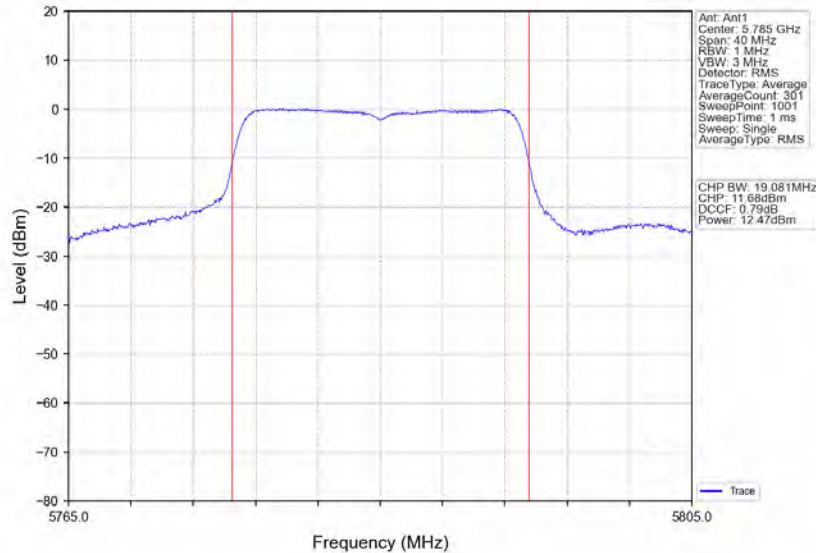
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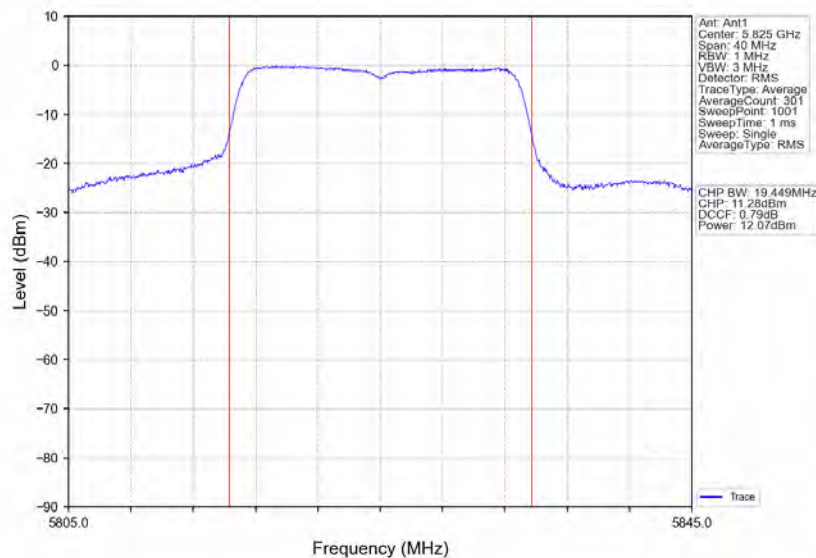
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802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



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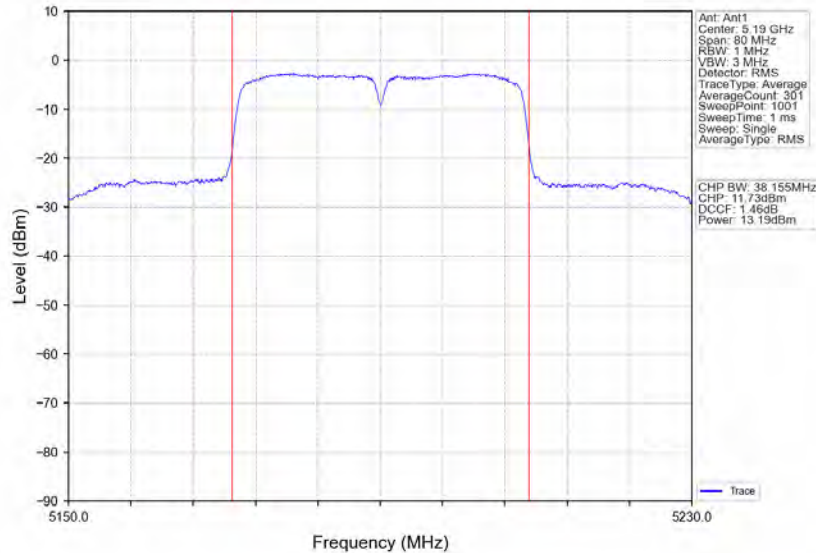
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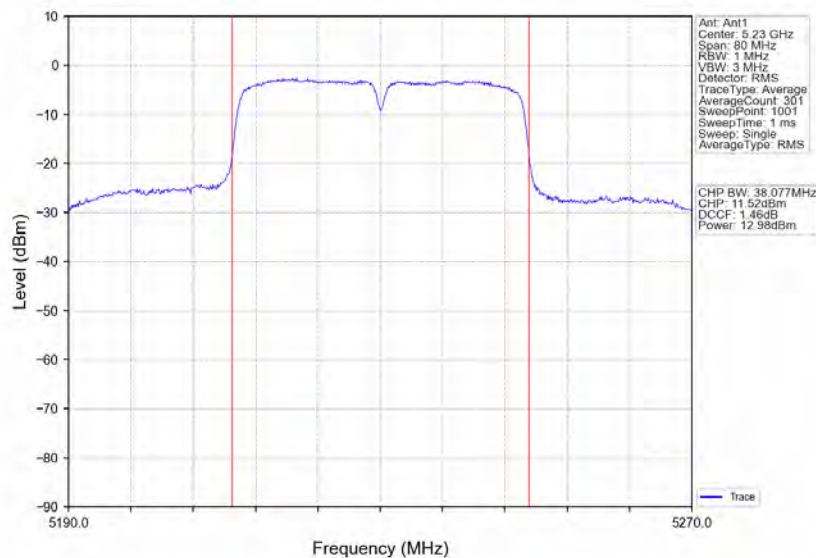
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802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



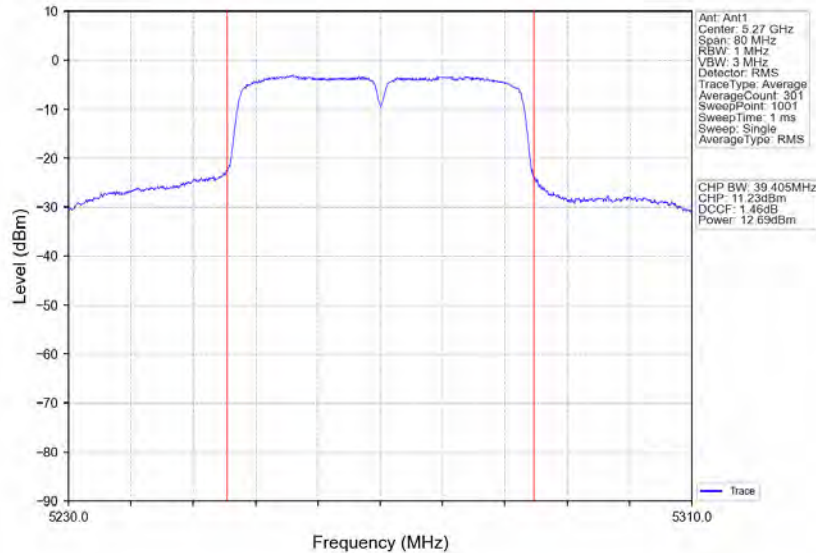
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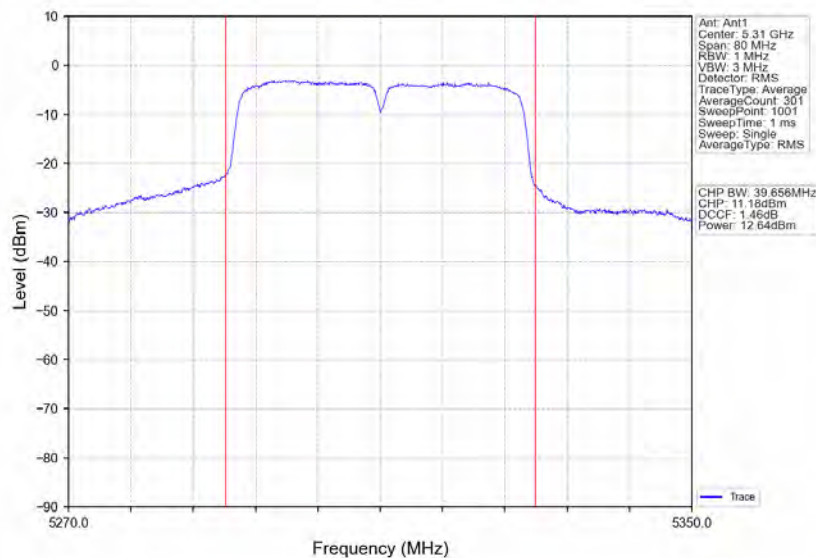
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802.11ac(VHT40)\_LCH\_5270MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5310MHz\_Ant1\_NTNV



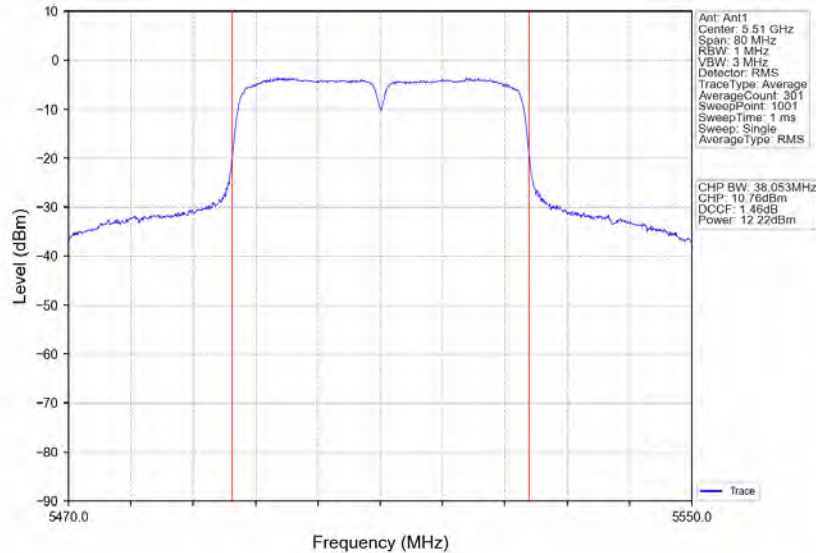
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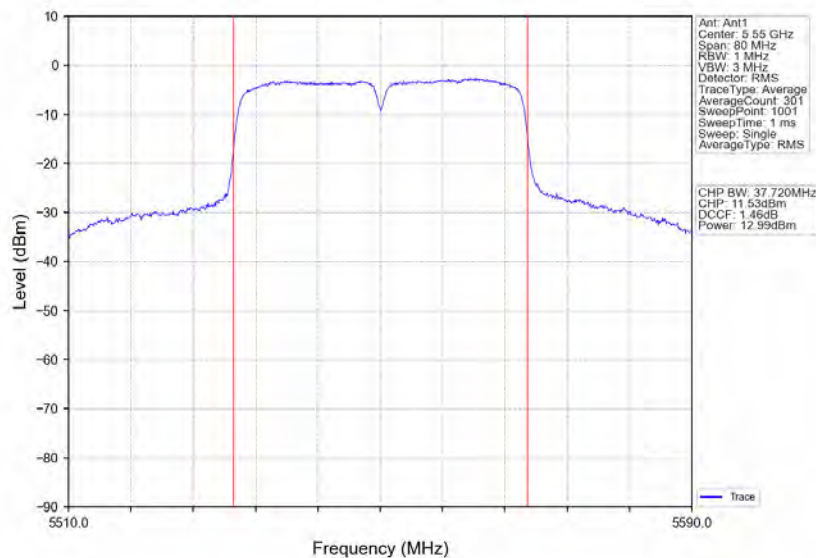
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802.11ac(VHT40)\_LCH\_5510MHz\_Ant1\_NTNV



802.11ac(VHT40)\_MCH\_5550MHz\_Ant1\_NTNV



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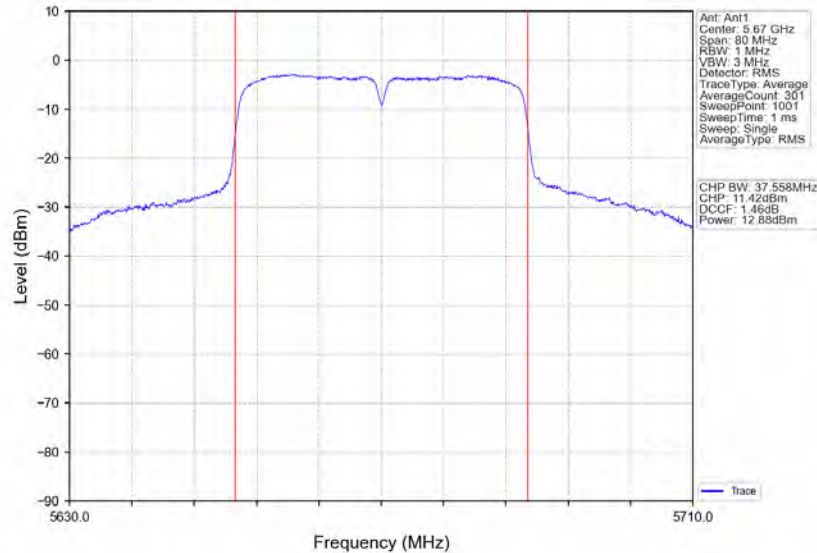
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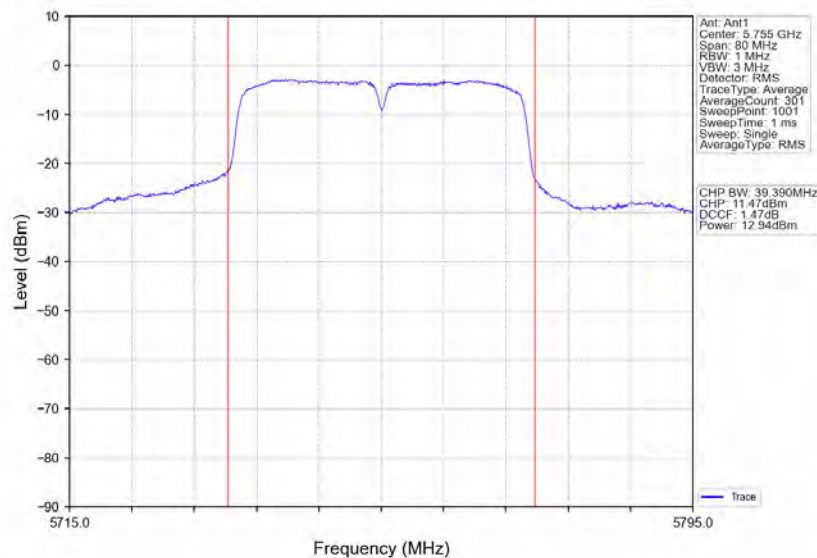
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802.11ac(VHT40)\_HCH\_5670MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



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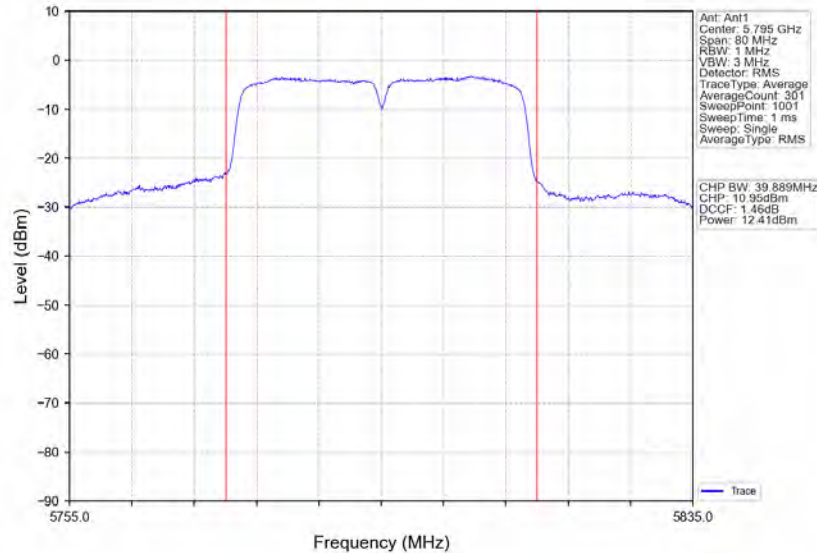
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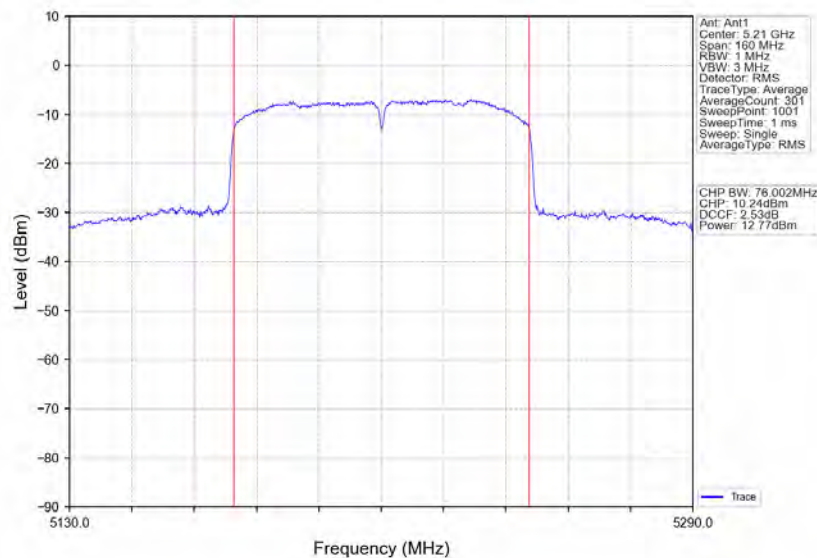
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802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



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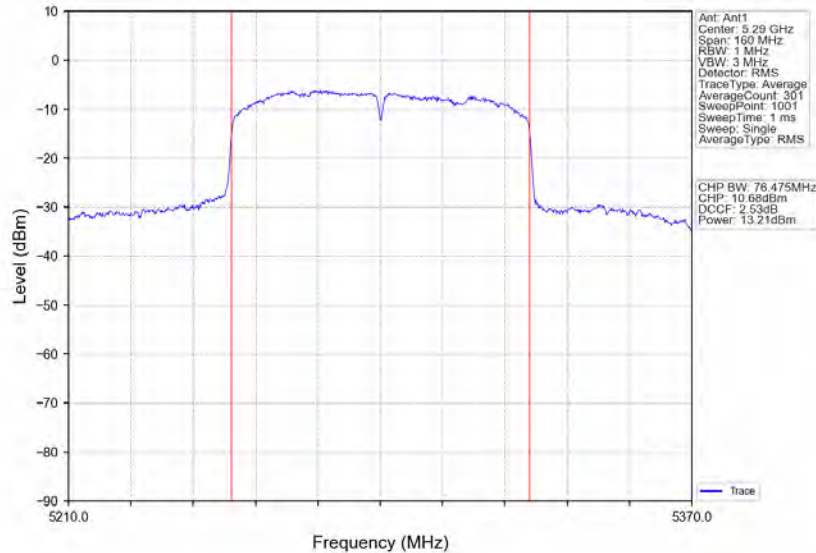
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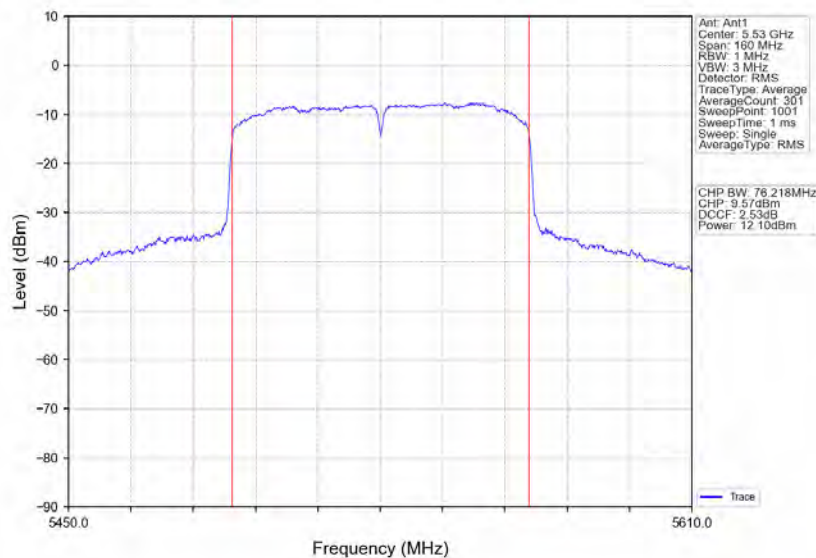
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802.11ac(VHT80)\_MCH\_5290MHz\_Ant1\_NTNV



802.11ac(VHT80)\_LCH\_5530MHz\_Ant1\_NTNV



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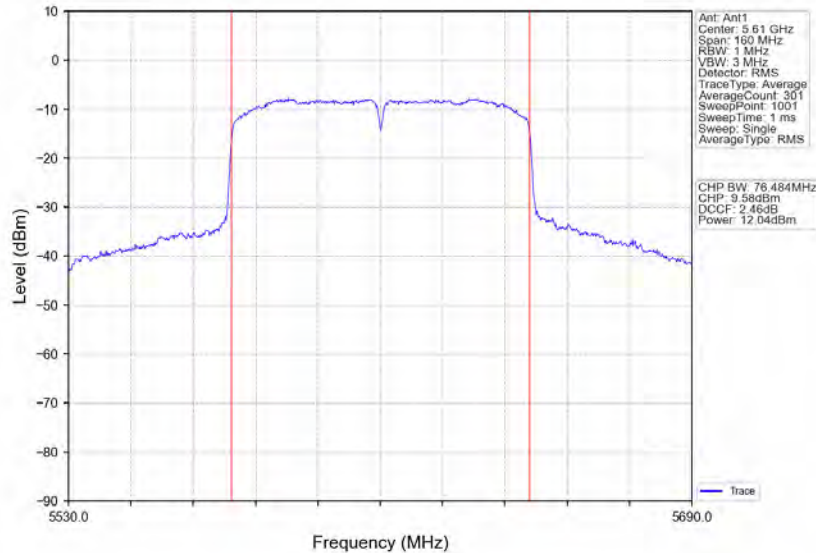
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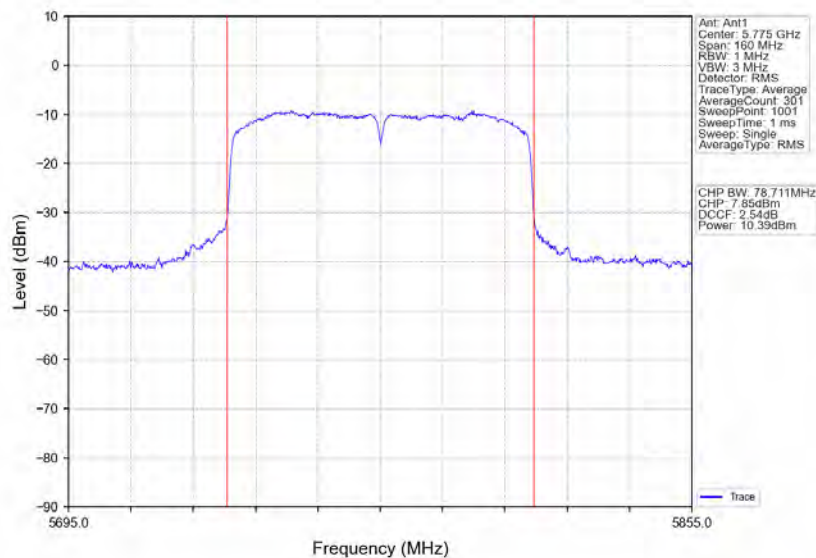
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802.11ac(VHT80)\_HCH\_5610MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



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## 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result

| Mode             | TX Type | Frequency (MHz) | Maximum PSD (dBm/MHz) |       | Verdict |
|------------------|---------|-----------------|-----------------------|-------|---------|
|                  |         |                 | ANT1                  | Limit |         |
| 802.11ac (VHT20) | SISO    | 5180            | 1.83                  | <=11  | Pass    |
|                  |         | 5200            | 1.67                  | <=11  | Pass    |
|                  |         | 5240            | 1.63                  | <=11  | Pass    |
|                  |         | 5260            | 0.94                  | <=11  | Pass    |
|                  |         | 5300            | 1.64                  | <=11  | Pass    |
|                  |         | 5320            | 1.80                  | <=11  | Pass    |
|                  |         | 5500            | 1.45                  | <=11  | Pass    |
|                  |         | 5580            | 2.17                  | <=11  | Pass    |
|                  |         | 5700            | 1.55                  | <=11  | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | -1.06                 | <=11  | Pass    |
|                  |         | 5230            | -1.24                 | <=11  | Pass    |
|                  |         | 5270            | -1.51                 | <=11  | Pass    |
|                  |         | 5310            | -1.66                 | <=11  | Pass    |
|                  |         | 5510            | -2.12                 | <=11  | Pass    |
|                  |         | 5550            | -0.98                 | <=11  | Pass    |
|                  |         | 5670            | -1.41                 | <=11  | Pass    |
| 802.11ac (VHT80) | SISO    | 5210            | -4.46                 | <=11  | Pass    |
|                  |         | 5290            | -3.99                 | <=11  | Pass    |
|                  |         | 5530            | -4.52                 | <=11  | Pass    |
|                  |         | 5610            | -5.17                 | <=11  | Pass    |

Note1: Antenna Gain: Ant1: 1.00dBi;



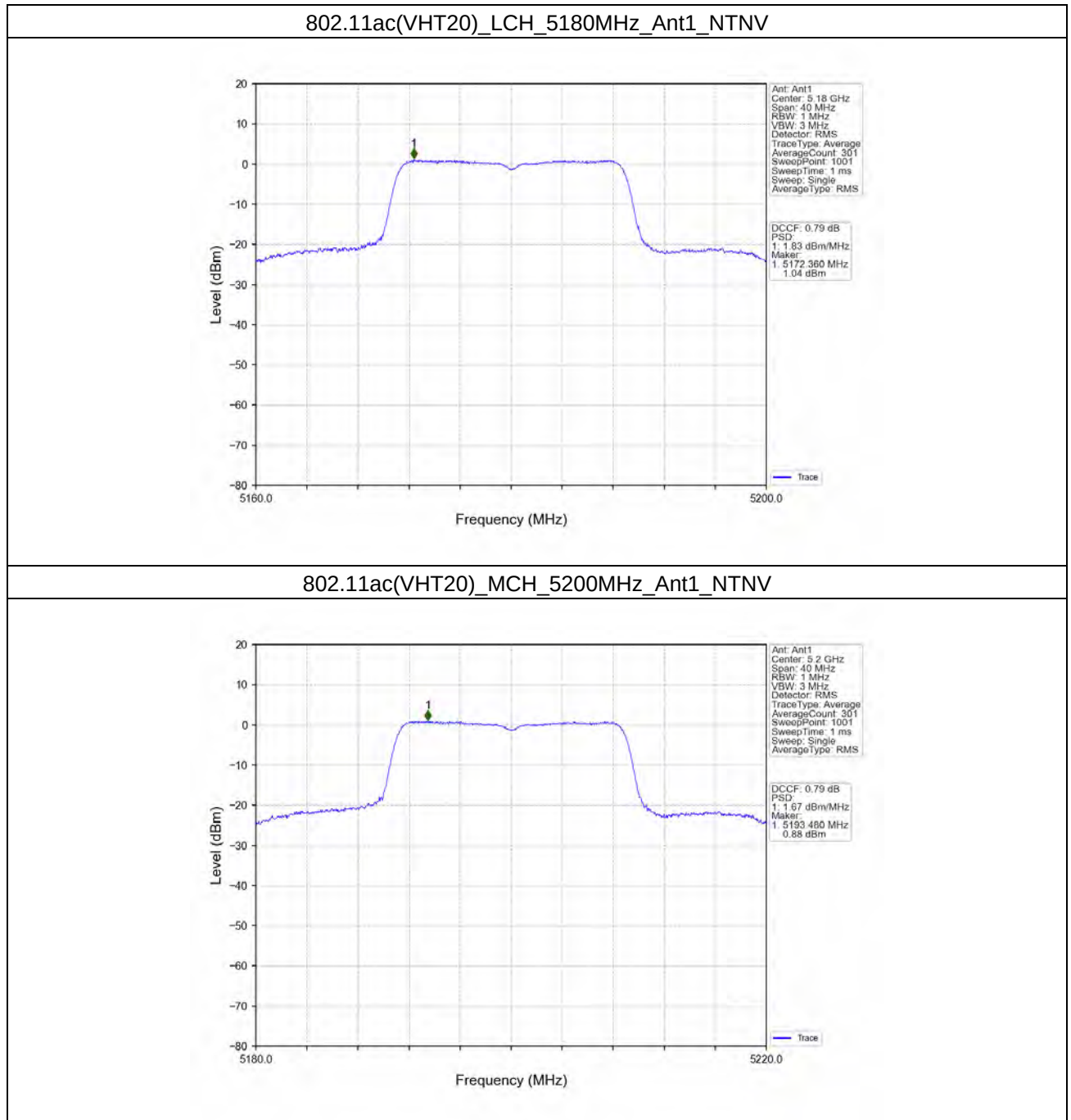
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### 4.1.2 Test Graph



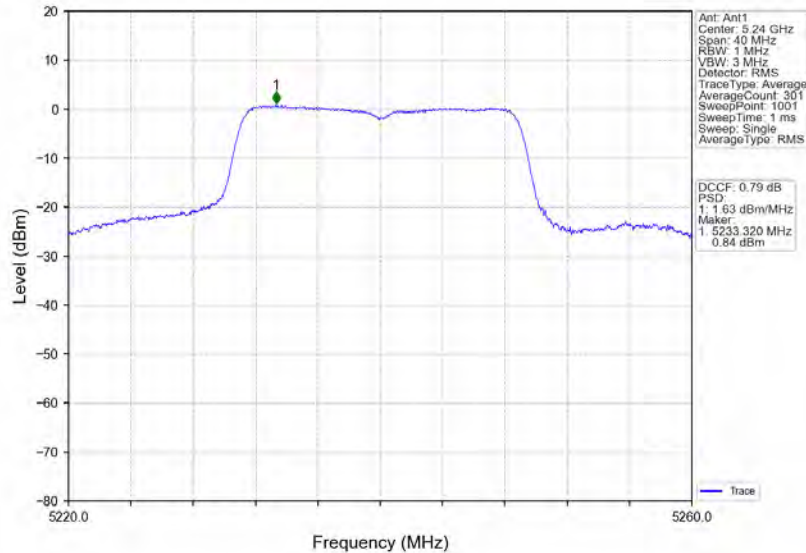
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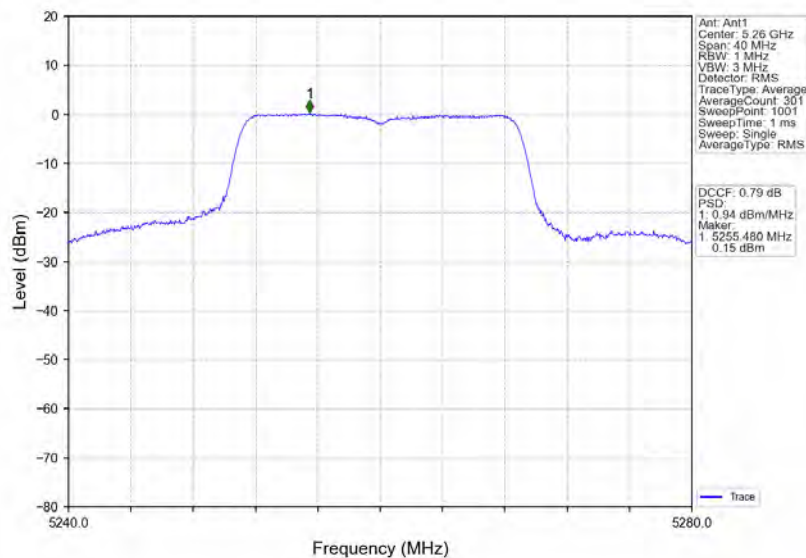
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802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



802.11ac(VHT20)\_LCH\_5260MHz\_Ant1\_NTNV



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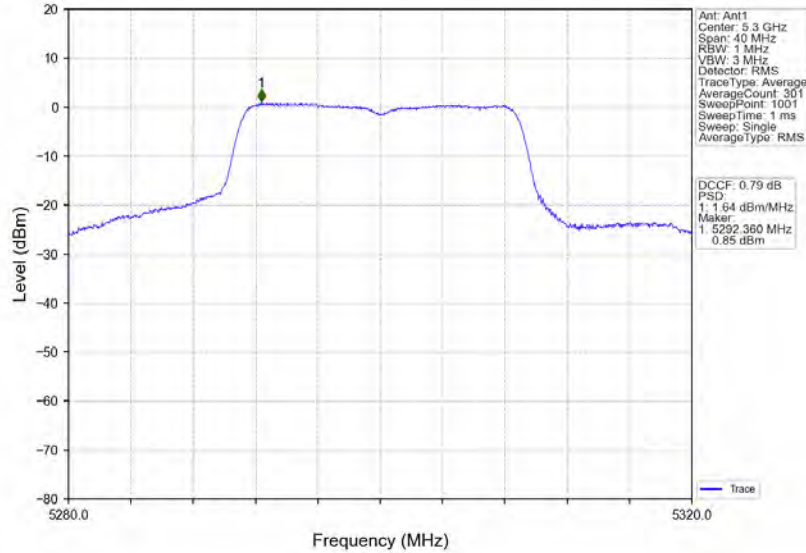
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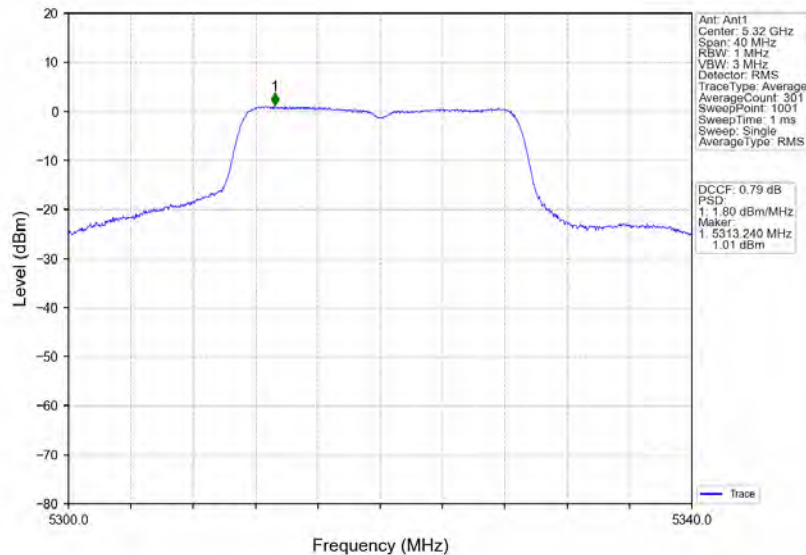
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802.11ac(VHT20)\_MCH\_5300MHz\_Ant1\_NTNV



802.11ac(VHT20)\_HCH\_5320MHz\_Ant1\_NTNV



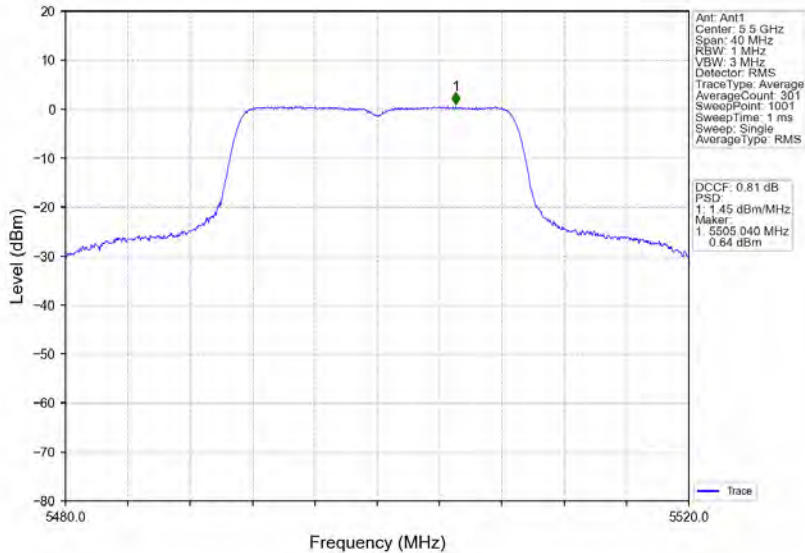
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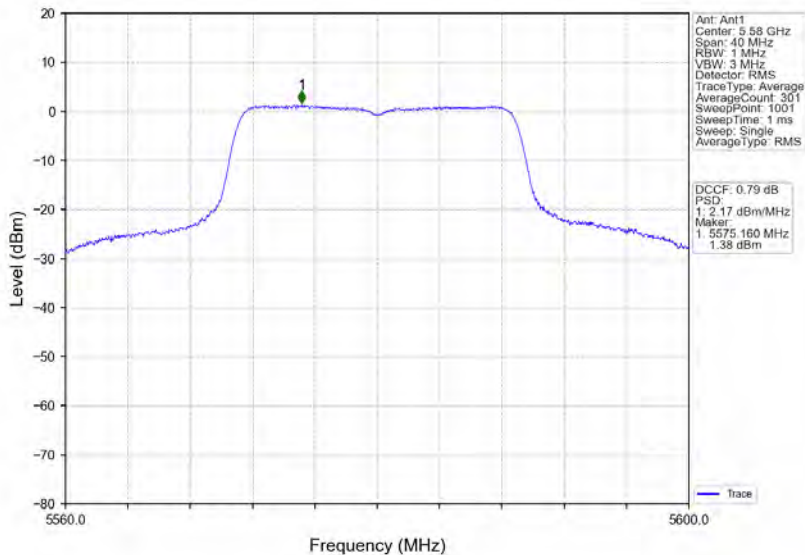
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802.11ac(VHT20)\_LCH\_5500MHz\_Ant1\_NTNV



802.11ac(VHT20)\_MCH\_5580MHz\_Ant1\_NTNV



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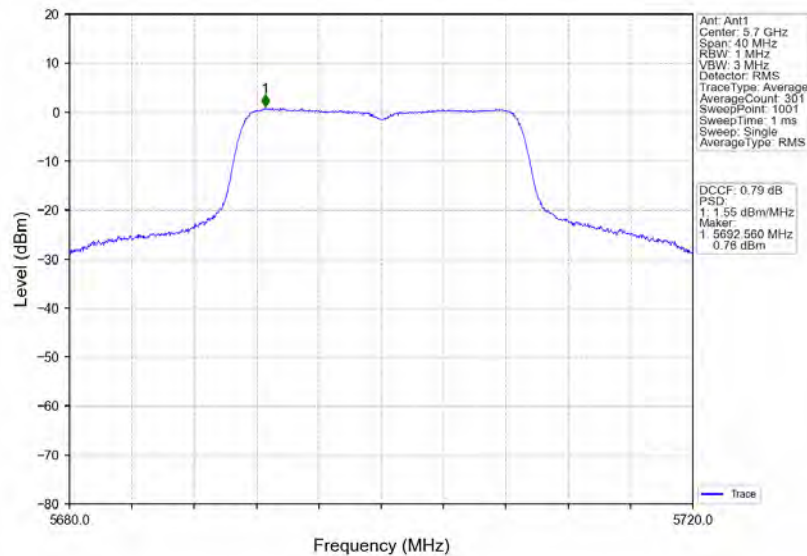
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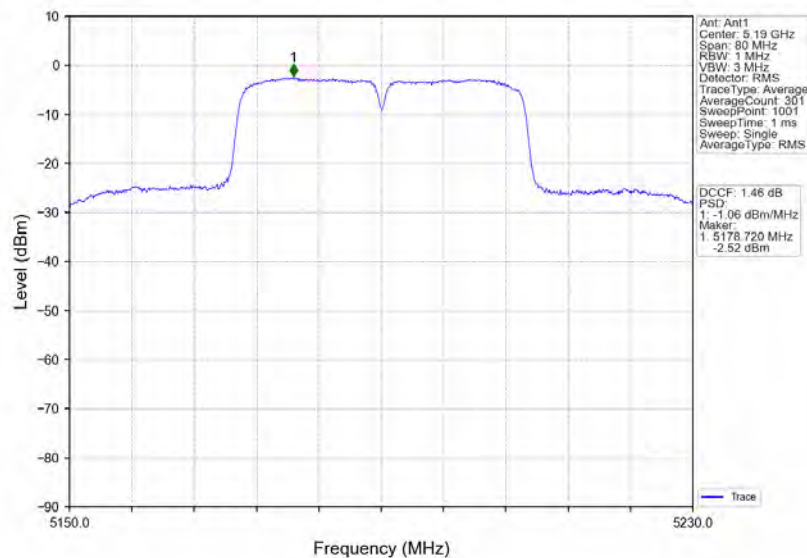
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802.11ac(VHT20)\_HCH\_5700MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



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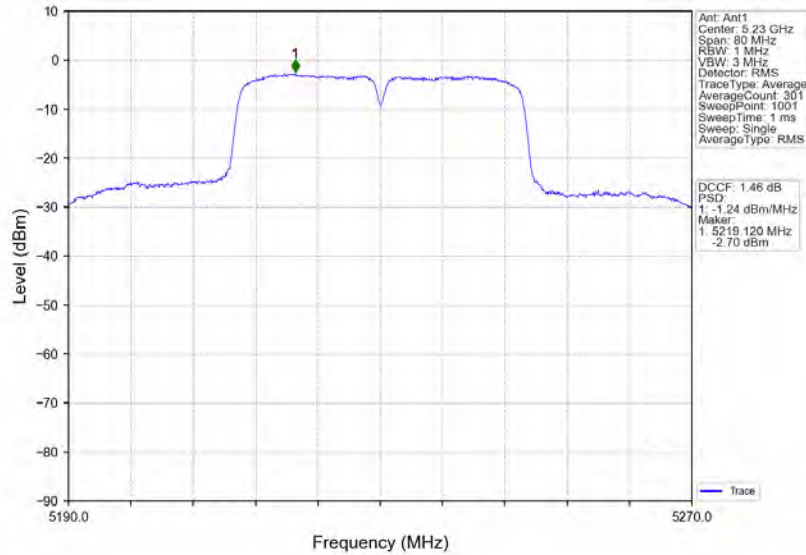
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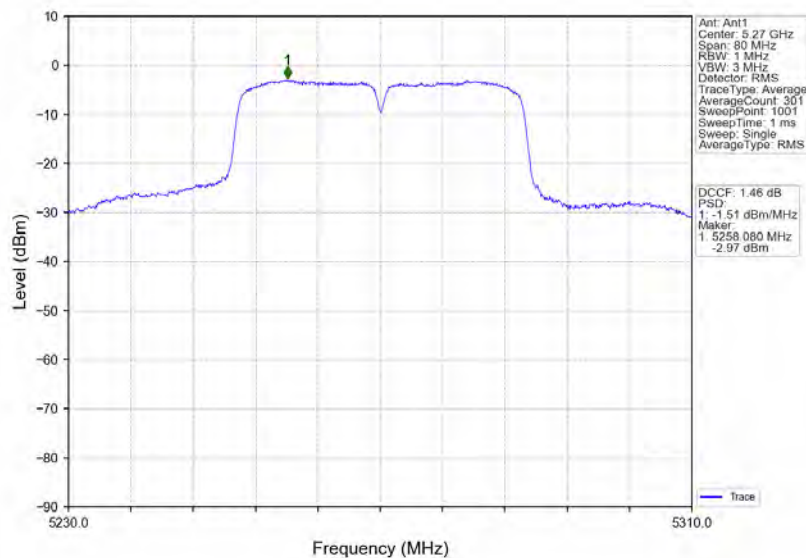
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802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5270MHz\_Ant1\_NTNV



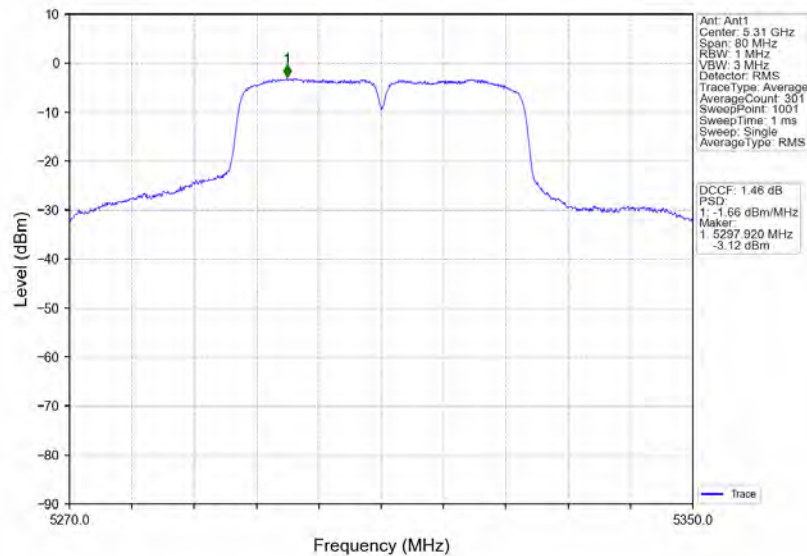
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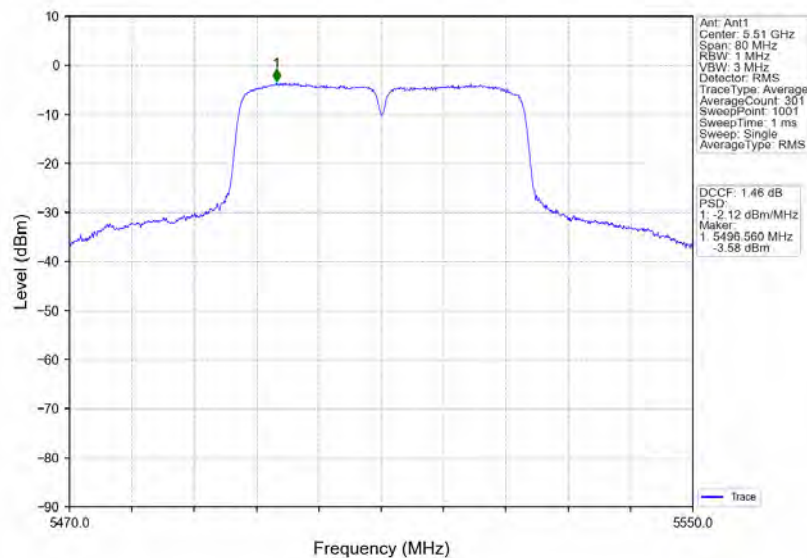
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802.11ac(VHT40)\_HCH\_5310MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5510MHz\_Ant1\_NTNV



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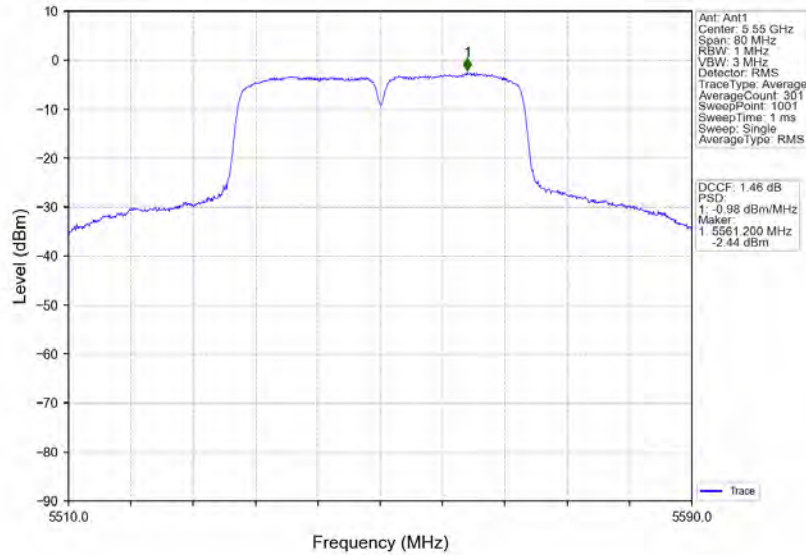
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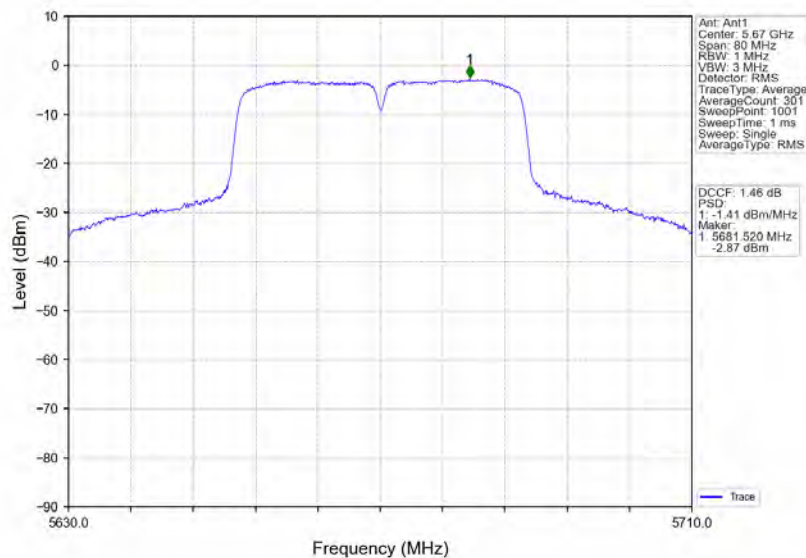
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802.11ac(VHT40)\_MCH\_5550MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5670MHz\_Ant1\_NTNV



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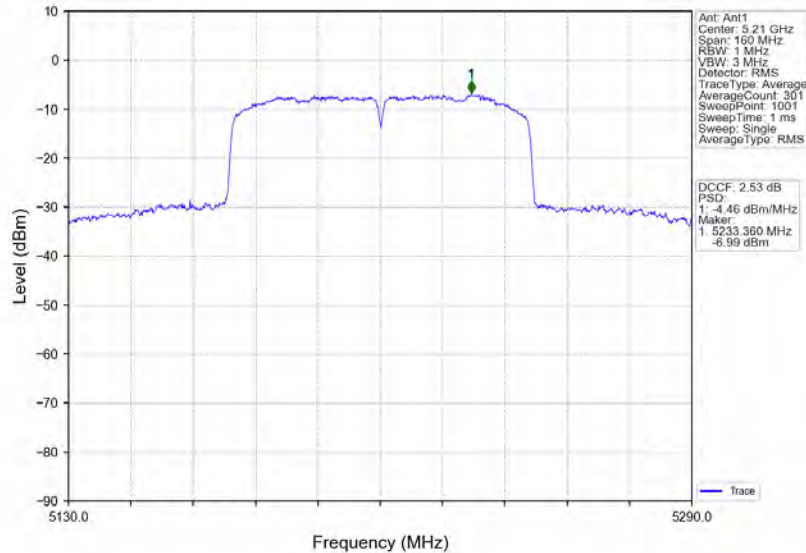
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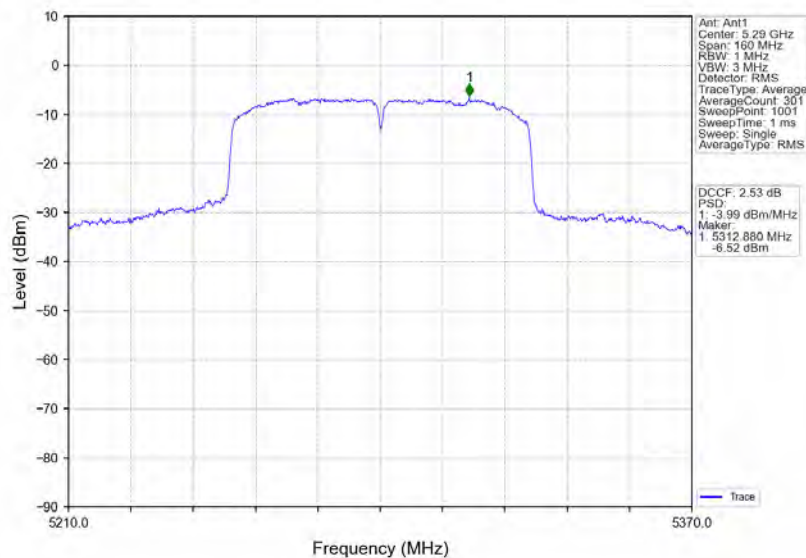
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802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



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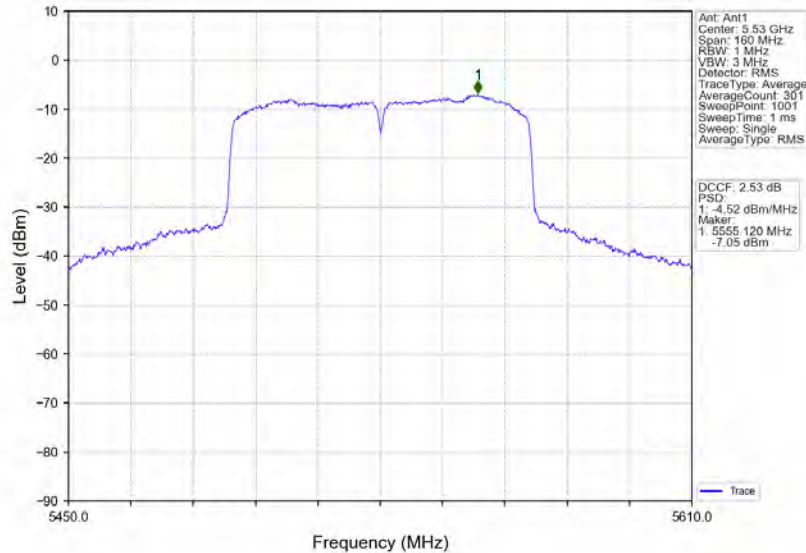
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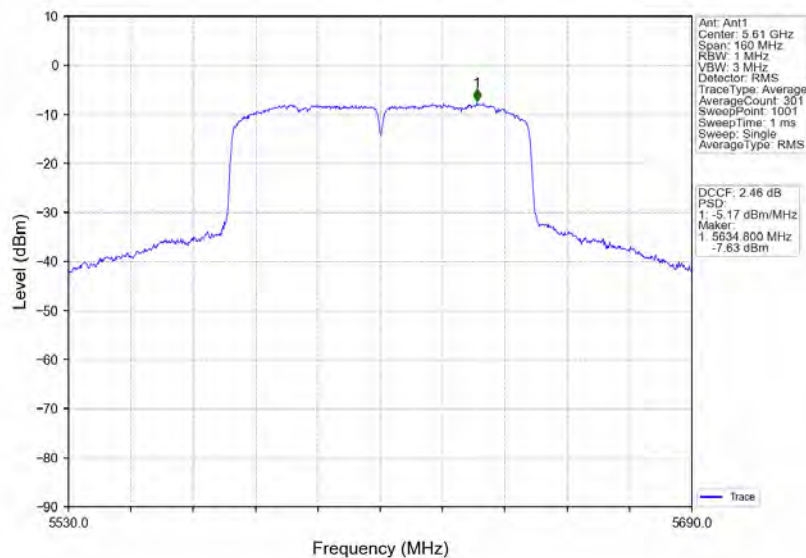
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802.11ac(VHT80)\_LCH\_5530MHz\_Ant1\_NTNV



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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220900161101

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### 4.2 PSD-Band3

#### 4.2.1 Test Result

| Mode             | TX Type | Frequency (MHz) | Maximum PSD (dBm/500kHz) |       | Verdict |
|------------------|---------|-----------------|--------------------------|-------|---------|
|                  |         |                 | ANT1                     | Limit |         |
| 802.11ac (VHT20) | SISO    | 5745            | -1.03                    | <=30  | Pass    |
|                  |         | 5785            | -2.00                    | <=30  | Pass    |
|                  |         | 5825            | -2.18                    | <=30  | Pass    |
| 802.11ac (VHT40) | SISO    | 5755            | -3.65                    | <=30  | Pass    |
|                  |         | 5795            | -4.67                    | <=30  | Pass    |
| 802.11ac (VHT80) | SISO    | 5775            | -9.10                    | <=30  | Pass    |

Note1: Antenna Gain: Ant1: 1.00dBi;



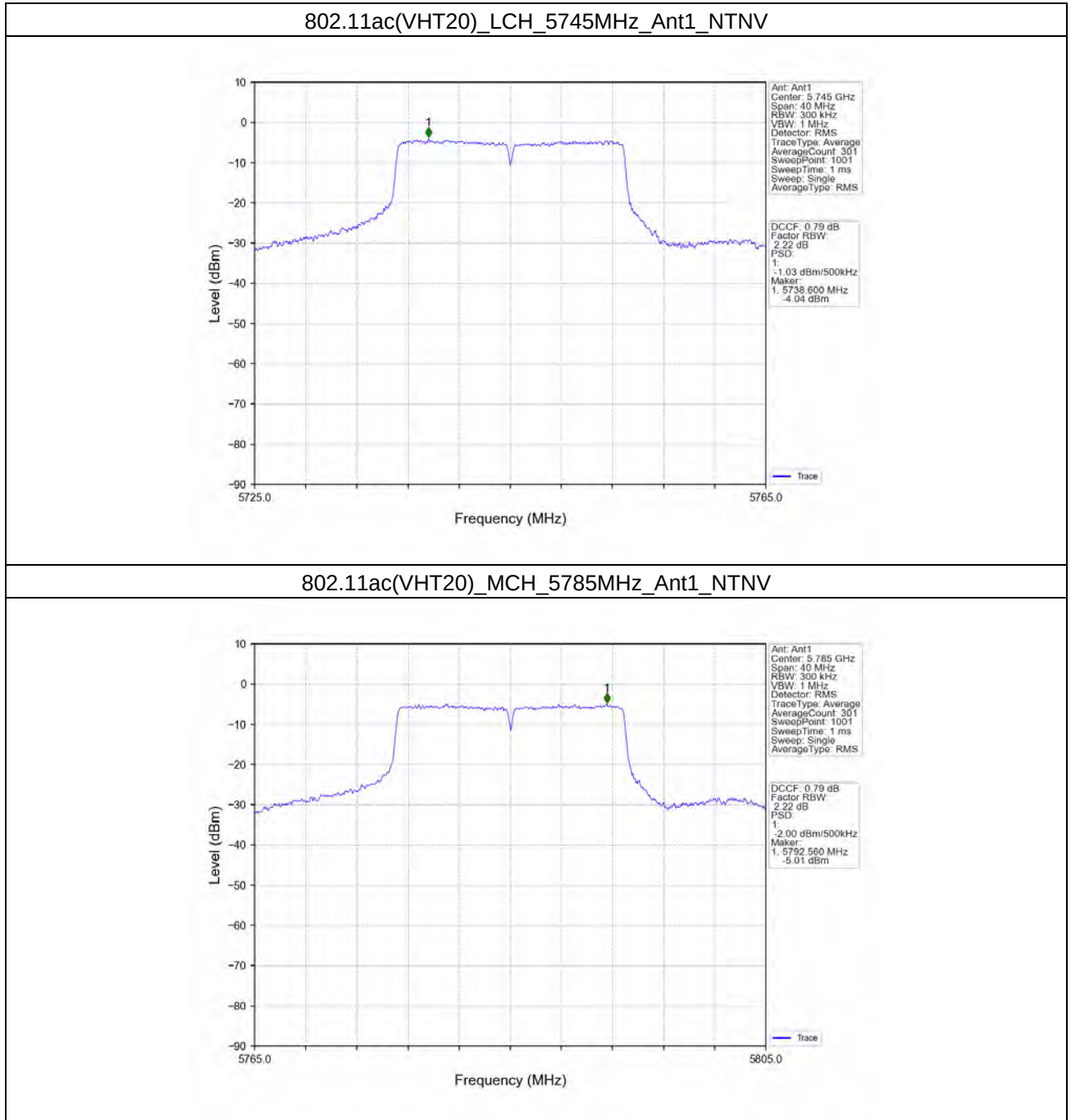
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### 4.2.2 Test Graph



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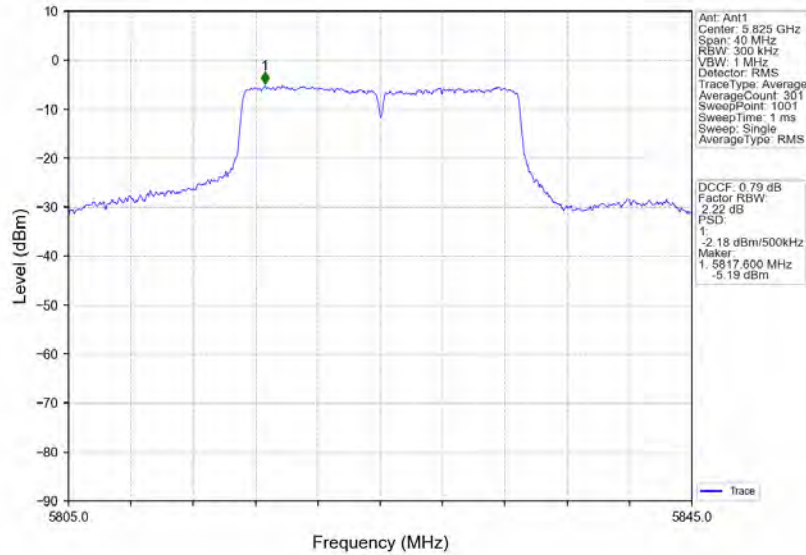
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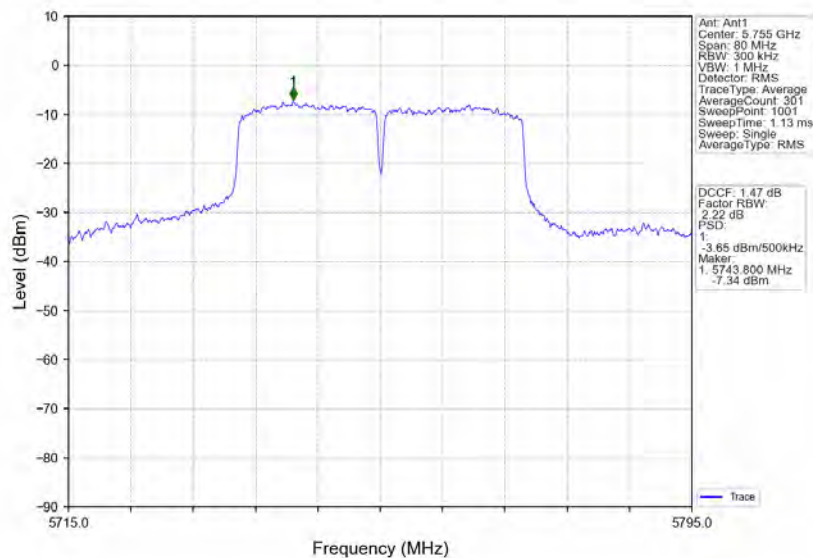
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### 802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



### 802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



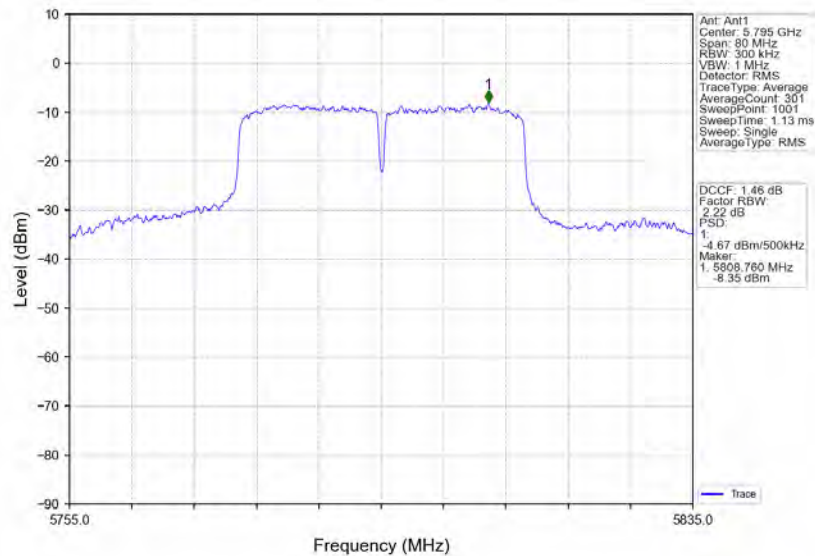
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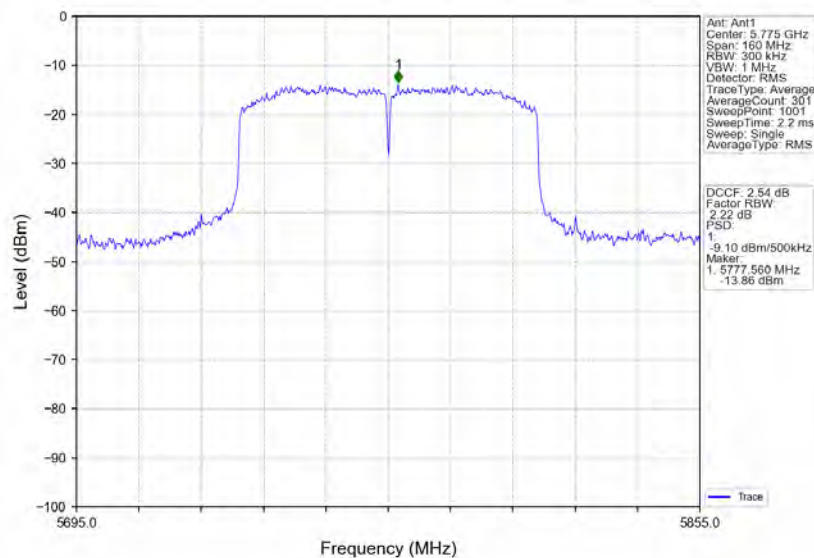
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802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



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## 5. Frequency Stability

### 5.1 Ant1

#### 5.1.1 Test Result

| Ant1             |         |                 |                  |              |                          |              |         |
|------------------|---------|-----------------|------------------|--------------|--------------------------|--------------|---------|
| Mode             | TX Type | Frequency (MHz) | Temperature (°C) | Voltage (DC) | Measured Frequency (MHz) | Limit (MHz)  | Verdict |
| 802.11ac (VHT20) | SISO    | 5180            | 20               | 3.5          | 5180.040                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 3.8          | 5180.000                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 4.2          | 5180.000                 | 5150 to 5250 | Pass    |
|                  |         |                 | -20              | 3.8          | 5180.020                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 3.8          | 5180.040                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 3.8          | 5180.020                 | 5150 to 5250 | Pass    |
|                  |         |                 | 0                | 3.8          | 5180.020                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 3.8          | 5179.980                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 3.8          | 5180.020                 | 5150 to 5250 | Pass    |
|                  |         |                 | 10               | 3.8          | 5180.060                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 3.8          | 5180.020                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 3.8          | 5180.020                 | 5150 to 5250 | Pass    |
|                  |         | 5200            | 20               | 3.5          | 5200.020                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 3.8          | 5200.020                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 4.2          | 5200.040                 | 5150 to 5250 | Pass    |
|                  |         |                 | -20              | 3.8          | 5200.020                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 3.8          | 5200.000                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 3.8          | 5200.020                 | 5150 to 5250 | Pass    |
|                  |         |                 | 0                | 3.8          | 5200.020                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 3.8          | 5199.980                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 3.8          | 5200.000                 | 5150 to 5250 | Pass    |
|                  |         |                 | 10               | 3.8          | 5200.020                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 3.8          | 5200.040                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 3.8          | 5200.000                 | 5150 to 5250 | Pass    |
|                  |         | 5240            | 20               | 3.5          | 5239.980                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 3.8          | 5239.980                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 4.2          | 5240.020                 | 5150 to 5250 | Pass    |
|                  |         |                 | -20              | 3.8          | 5240.020                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 3.8          | 5240.040                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 3.8          | 5240.020                 | 5150 to 5250 | Pass    |
|                  |         |                 | 0                | 3.8          | 5240.020                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 3.8          | 5240.020                 | 5150 to 5250 | Pass    |
|                  |         |                 |                  | 3.8          | 5240.020                 | 5150 to 5250 | Pass    |



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|  |  |      |     |     |          |              |      |
|--|--|------|-----|-----|----------|--------------|------|
|  |  |      | 10  | 3.8 | 5240.000 | 5150 to 5250 | Pass |
|  |  |      | 20  | 3.8 | 5240.000 | 5150 to 5250 | Pass |
|  |  |      | 30  | 3.8 | 5240.000 | 5150 to 5250 | Pass |
|  |  |      | 40  | 3.8 | 5240.000 | 5150 to 5250 | Pass |
|  |  |      | 50  | 3.8 | 5240.000 | 5150 to 5250 | Pass |
|  |  |      | 55  | 3.8 | 5239.980 | 5150 to 5250 | Pass |
|  |  | 5260 | 20  | 3.5 | 5260.000 | 5250 to 5350 | Pass |
|  |  |      |     | 3.8 | 5260.020 | 5250 to 5350 | Pass |
|  |  |      |     | 4.2 | 5260.040 | 5250 to 5350 | Pass |
|  |  |      | -20 | 3.8 | 5260.020 | 5250 to 5350 | Pass |
|  |  |      | -10 | 3.8 | 5260.020 | 5250 to 5350 | Pass |
|  |  |      | 0   | 3.8 | 5259.980 | 5250 to 5350 | Pass |
|  |  |      | 10  | 3.8 | 5260.020 | 5250 to 5350 | Pass |
|  |  |      | 20  | 3.8 | 5260.000 | 5250 to 5350 | Pass |
|  |  |      | 30  | 3.8 | 5260.040 | 5250 to 5350 | Pass |
|  |  |      | 40  | 3.8 | 5260.040 | 5250 to 5350 | Pass |
|  |  |      | 50  | 3.8 | 5260.020 | 5250 to 5350 | Pass |
|  |  |      | 55  | 3.8 | 5260.040 | 5250 to 5350 | Pass |
|  |  | 5300 | 20  | 3.5 | 5300.020 | 5250 to 5350 | Pass |
|  |  |      |     | 3.8 | 5300.040 | 5250 to 5350 | Pass |
|  |  |      |     | 4.2 | 5300.020 | 5250 to 5350 | Pass |
|  |  |      | -20 | 3.8 | 5300.020 | 5250 to 5350 | Pass |
|  |  |      | -10 | 3.8 | 5300.040 | 5250 to 5350 | Pass |
|  |  |      | 0   | 3.8 | 5300.020 | 5250 to 5350 | Pass |
|  |  |      | 10  | 3.8 | 5300.020 | 5250 to 5350 | Pass |
|  |  |      | 20  | 3.8 | 5300.000 | 5250 to 5350 | Pass |
|  |  |      | 30  | 3.8 | 5300.020 | 5250 to 5350 | Pass |
|  |  |      | 40  | 3.8 | 5300.020 | 5250 to 5350 | Pass |
|  |  |      | 50  | 3.8 | 5300.040 | 5250 to 5350 | Pass |
|  |  |      | 55  | 3.8 | 5300.020 | 5250 to 5350 | Pass |
|  |  | 5320 | 20  | 3.5 | 5320.040 | 5250 to 5350 | Pass |
|  |  |      |     | 3.8 | 5320.000 | 5250 to 5350 | Pass |
|  |  |      |     | 4.2 | 5320.060 | 5250 to 5350 | Pass |
|  |  |      | -20 | 3.8 | 5320.020 | 5250 to 5350 | Pass |
|  |  |      | -10 | 3.8 | 5320.020 | 5250 to 5350 | Pass |
|  |  |      | 0   | 3.8 | 5320.000 | 5250 to 5350 | Pass |
|  |  |      | 10  | 3.8 | 5320.040 | 5250 to 5350 | Pass |
|  |  |      | 20  | 3.8 | 5320.020 | 5250 to 5350 | Pass |
|  |  |      | 30  | 3.8 | 5320.060 | 5250 to 5350 | Pass |



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|  |  |      |     |     |          |              |      |
|--|--|------|-----|-----|----------|--------------|------|
|  |  |      | 40  | 3.8 | 5320.020 | 5250 to 5350 | Pass |
|  |  |      | 50  | 3.8 | 5320.020 | 5250 to 5350 | Pass |
|  |  |      | 55  | 3.8 | 5320.060 | 5250 to 5350 | Pass |
|  |  | 5500 | 20  | 3.5 | 5500.020 | 5470 to 5725 | Pass |
|  |  |      |     | 3.8 | 5499.960 | 5470 to 5725 | Pass |
|  |  |      |     | 4.2 | 5500.020 | 5470 to 5725 | Pass |
|  |  |      | -20 | 3.8 | 5500.000 | 5470 to 5725 | Pass |
|  |  |      | -10 | 3.8 | 5499.980 | 5470 to 5725 | Pass |
|  |  |      | 0   | 3.8 | 5500.020 | 5470 to 5725 | Pass |
|  |  |      | 10  | 3.8 | 5500.040 | 5470 to 5725 | Pass |
|  |  |      | 20  | 3.8 | 5500.080 | 5470 to 5725 | Pass |
|  |  |      | 30  | 3.8 | 5500.020 | 5470 to 5725 | Pass |
|  |  |      | 40  | 3.8 | 5500.020 | 5470 to 5725 | Pass |
|  |  |      | 50  | 3.8 | 5500.020 | 5470 to 5725 | Pass |
|  |  |      | 55  | 3.8 | 5500.020 | 5470 to 5725 | Pass |
|  |  | 5580 | 20  | 3.5 | 5580.000 | 5470 to 5725 | Pass |
|  |  |      |     | 3.8 | 5580.000 | 5470 to 5725 | Pass |
|  |  |      |     | 4.2 | 5580.020 | 5470 to 5725 | Pass |
|  |  |      | -20 | 3.8 | 5579.980 | 5470 to 5725 | Pass |
|  |  |      | -10 | 3.8 | 5580.040 | 5470 to 5725 | Pass |
|  |  |      | 0   | 3.8 | 5580.000 | 5470 to 5725 | Pass |
|  |  |      | 10  | 3.8 | 5580.000 | 5470 to 5725 | Pass |
|  |  |      | 20  | 3.8 | 5580.000 | 5470 to 5725 | Pass |
|  |  |      | 30  | 3.8 | 5580.020 | 5470 to 5725 | Pass |
|  |  |      | 40  | 3.8 | 5580.000 | 5470 to 5725 | Pass |
|  |  |      | 50  | 3.8 | 5580.000 | 5470 to 5725 | Pass |
|  |  |      | 55  | 3.8 | 5580.040 | 5470 to 5725 | Pass |
|  |  | 5700 | 20  | 3.5 | 5700.020 | 5470 to 5725 | Pass |
|  |  |      |     | 3.8 | 5700.000 | 5470 to 5725 | Pass |
|  |  |      |     | 4.2 | 5700.000 | 5470 to 5725 | Pass |
|  |  |      | -20 | 3.8 | 5700.000 | 5470 to 5725 | Pass |
|  |  |      | -10 | 3.8 | 5700.000 | 5470 to 5725 | Pass |
|  |  |      | 0   | 3.8 | 5700.020 | 5470 to 5725 | Pass |
|  |  |      | 10  | 3.8 | 5700.000 | 5470 to 5725 | Pass |
|  |  |      | 20  | 3.8 | 5700.020 | 5470 to 5725 | Pass |
|  |  |      | 30  | 3.8 | 5700.020 | 5470 to 5725 | Pass |
|  |  |      | 40  | 3.8 | 5700.020 | 5470 to 5725 | Pass |
|  |  |      | 50  | 3.8 | 5700.000 | 5470 to 5725 | Pass |
|  |  |      | 55  | 3.8 | 5700.060 | 5470 to 5725 | Pass |



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|---------------------|------|------|-----|-----|----------|--------------|------|
|                     |      | 5745 | 20  | 3.5 | 5744.980 | 5725 to 5850 | Pass |
|                     |      |      |     | 3.8 | 5744.980 | 5725 to 5850 | Pass |
|                     |      |      |     | 4.2 | 5744.960 | 5725 to 5850 | Pass |
|                     |      |      | -20 | 3.8 | 5744.980 | 5725 to 5850 | Pass |
|                     |      |      | -10 | 3.8 | 5745.000 | 5725 to 5850 | Pass |
|                     |      |      | 0   | 3.8 | 5745.000 | 5725 to 5850 | Pass |
|                     |      |      | 10  | 3.8 | 5744.980 | 5725 to 5850 | Pass |
|                     |      |      | 20  | 3.8 | 5745.000 | 5725 to 5850 | Pass |
|                     |      |      | 30  | 3.8 | 5745.000 | 5725 to 5850 | Pass |
|                     |      |      | 40  | 3.8 | 5745.040 | 5725 to 5850 | Pass |
|                     |      |      | 50  | 3.8 | 5745.000 | 5725 to 5850 | Pass |
|                     |      |      | 55  | 3.8 | 5745.020 | 5725 to 5850 | Pass |
|                     |      | 5785 | 20  | 3.5 | 5785.000 | 5725 to 5850 | Pass |
|                     |      |      |     | 3.8 | 5785.000 | 5725 to 5850 | Pass |
|                     |      |      |     | 4.2 | 5785.040 | 5725 to 5850 | Pass |
|                     |      |      | -20 | 3.8 | 5785.040 | 5725 to 5850 | Pass |
|                     |      |      | -10 | 3.8 | 5785.040 | 5725 to 5850 | Pass |
|                     |      |      | 0   | 3.8 | 5785.020 | 5725 to 5850 | Pass |
|                     |      |      | 10  | 3.8 | 5785.040 | 5725 to 5850 | Pass |
|                     |      |      | 20  | 3.8 | 5785.060 | 5725 to 5850 | Pass |
|                     |      |      | 30  | 3.8 | 5785.020 | 5725 to 5850 | Pass |
|                     |      |      | 40  | 3.8 | 5785.040 | 5725 to 5850 | Pass |
|                     |      |      | 50  | 3.8 | 5785.060 | 5725 to 5850 | Pass |
|                     |      |      | 55  | 3.8 | 5785.040 | 5725 to 5850 | Pass |
|                     |      | 5825 | 20  | 3.5 | 5825.020 | 5725 to 5850 | Pass |
|                     |      |      |     | 3.8 | 5825.000 | 5725 to 5850 | Pass |
|                     |      |      |     | 4.2 | 5825.020 | 5725 to 5850 | Pass |
|                     |      |      | -20 | 3.8 | 5825.040 | 5725 to 5850 | Pass |
|                     |      |      | -10 | 3.8 | 5825.040 | 5725 to 5850 | Pass |
|                     |      |      | 0   | 3.8 | 5825.020 | 5725 to 5850 | Pass |
|                     |      |      | 10  | 3.8 | 5825.060 | 5725 to 5850 | Pass |
|                     |      |      | 20  | 3.8 | 5825.000 | 5725 to 5850 | Pass |
|                     |      |      | 30  | 3.8 | 5824.980 | 5725 to 5850 | Pass |
|                     |      |      | 40  | 3.8 | 5825.040 | 5725 to 5850 | Pass |
|                     |      |      | 50  | 3.8 | 5824.980 | 5725 to 5850 | Pass |
|                     |      |      | 55  | 3.8 | 5825.040 | 5725 to 5850 | Pass |
| 802.11ac<br>(VHT40) | SISO | 5190 | 20  | 3.5 | 5190.080 | 5150 to 5250 | Pass |
|                     |      |      |     | 3.8 | 5190.120 | 5150 to 5250 | Pass |
|                     |      |      |     | 4.2 | 5190.000 | 5150 to 5250 | Pass |



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|  |  |      |     |     |          |              |      |
|--|--|------|-----|-----|----------|--------------|------|
|  |  |      | -20 | 3.8 | 5190.040 | 5150 to 5250 | Pass |
|  |  |      | -10 | 3.8 | 5190.080 | 5150 to 5250 | Pass |
|  |  |      | 0   | 3.8 | 5190.120 | 5150 to 5250 | Pass |
|  |  |      | 10  | 3.8 | 5190.040 | 5150 to 5250 | Pass |
|  |  |      | 20  | 3.8 | 5190.120 | 5150 to 5250 | Pass |
|  |  |      | 30  | 3.8 | 5190.080 | 5150 to 5250 | Pass |
|  |  |      | 40  | 3.8 | 5190.040 | 5150 to 5250 | Pass |
|  |  |      | 50  | 3.8 | 5190.040 | 5150 to 5250 | Pass |
|  |  |      | 55  | 3.8 | 5190.040 | 5150 to 5250 | Pass |
|  |  | 5230 | 20  | 3.5 | 5230.120 | 5150 to 5250 | Pass |
|  |  |      |     | 3.8 | 5230.120 | 5150 to 5250 | Pass |
|  |  |      |     | 4.2 | 5230.080 | 5150 to 5250 | Pass |
|  |  |      | -20 | 3.8 | 5230.080 | 5150 to 5250 | Pass |
|  |  |      | -10 | 3.8 | 5230.040 | 5150 to 5250 | Pass |
|  |  |      | 0   | 3.8 | 5230.040 | 5150 to 5250 | Pass |
|  |  |      | 10  | 3.8 | 5230.080 | 5150 to 5250 | Pass |
|  |  |      | 20  | 3.8 | 5230.080 | 5150 to 5250 | Pass |
|  |  |      | 30  | 3.8 | 5230.080 | 5150 to 5250 | Pass |
|  |  |      | 40  | 3.8 | 5230.040 | 5150 to 5250 | Pass |
|  |  |      | 50  | 3.8 | 5230.040 | 5150 to 5250 | Pass |
|  |  |      | 55  | 3.8 | 5230.080 | 5150 to 5250 | Pass |
|  |  | 5270 | 20  | 3.5 | 5270.120 | 5250 to 5350 | Pass |
|  |  |      |     | 3.8 | 5270.040 | 5250 to 5350 | Pass |
|  |  |      |     | 4.2 | 5270.040 | 5250 to 5350 | Pass |
|  |  |      | -20 | 3.8 | 5270.120 | 5250 to 5350 | Pass |
|  |  |      | -10 | 3.8 | 5270.080 | 5250 to 5350 | Pass |
|  |  |      | 0   | 3.8 | 5270.080 | 5250 to 5350 | Pass |
|  |  |      | 10  | 3.8 | 5270.040 | 5250 to 5350 | Pass |
|  |  |      | 20  | 3.8 | 5270.040 | 5250 to 5350 | Pass |
|  |  |      | 30  | 3.8 | 5270.120 | 5250 to 5350 | Pass |
|  |  |      | 40  | 3.8 | 5270.120 | 5250 to 5350 | Pass |
|  |  |      | 50  | 3.8 | 5270.040 | 5250 to 5350 | Pass |
|  |  |      | 55  | 3.8 | 5270.040 | 5250 to 5350 | Pass |
|  |  | 5310 | 20  | 3.5 | 5310.080 | 5250 to 5350 | Pass |
|  |  |      |     | 3.8 | 5310.040 | 5250 to 5350 | Pass |
|  |  |      |     | 4.2 | 5310.080 | 5250 to 5350 | Pass |
|  |  |      | -20 | 3.8 | 5310.000 | 5250 to 5350 | Pass |
|  |  |      | -10 | 3.8 | 5310.000 | 5250 to 5350 | Pass |
|  |  |      | 0   | 3.8 | 5310.000 | 5250 to 5350 | Pass |



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|  |  |      |     |     |          |              |      |
|--|--|------|-----|-----|----------|--------------|------|
|  |  |      | 10  | 3.8 | 5310.040 | 5250 to 5350 | Pass |
|  |  |      | 20  | 3.8 | 5310.040 | 5250 to 5350 | Pass |
|  |  |      | 30  | 3.8 | 5310.120 | 5250 to 5350 | Pass |
|  |  |      | 40  | 3.8 | 5310.040 | 5250 to 5350 | Pass |
|  |  |      | 50  | 3.8 | 5310.120 | 5250 to 5350 | Pass |
|  |  |      | 55  | 3.8 | 5310.000 | 5250 to 5350 | Pass |
|  |  | 5510 | 20  | 3.5 | 5510.120 | 5470 to 5725 | Pass |
|  |  |      |     | 3.8 | 5510.040 | 5470 to 5725 | Pass |
|  |  |      |     | 4.2 | 5510.040 | 5470 to 5725 | Pass |
|  |  |      | -20 | 3.8 | 5510.040 | 5470 to 5725 | Pass |
|  |  |      | -10 | 3.8 | 5510.000 | 5470 to 5725 | Pass |
|  |  |      | 0   | 3.8 | 5510.040 | 5470 to 5725 | Pass |
|  |  |      | 10  | 3.8 | 5510.040 | 5470 to 5725 | Pass |
|  |  |      | 20  | 3.8 | 5510.080 | 5470 to 5725 | Pass |
|  |  |      | 30  | 3.8 | 5509.960 | 5470 to 5725 | Pass |
|  |  |      | 40  | 3.8 | 5510.120 | 5470 to 5725 | Pass |
|  |  |      | 50  | 3.8 | 5510.120 | 5470 to 5725 | Pass |
|  |  |      | 55  | 3.8 | 5510.000 | 5470 to 5725 | Pass |
|  |  | 5550 | 20  | 3.5 | 5550.040 | 5470 to 5725 | Pass |
|  |  |      |     | 3.8 | 5550.080 | 5470 to 5725 | Pass |
|  |  |      |     | 4.2 | 5549.960 | 5470 to 5725 | Pass |
|  |  |      | -20 | 3.8 | 5550.000 | 5470 to 5725 | Pass |
|  |  |      | -10 | 3.8 | 5550.000 | 5470 to 5725 | Pass |
|  |  |      | 0   | 3.8 | 5550.040 | 5470 to 5725 | Pass |
|  |  |      | 10  | 3.8 | 5550.000 | 5470 to 5725 | Pass |
|  |  |      | 20  | 3.8 | 5550.080 | 5470 to 5725 | Pass |
|  |  |      | 30  | 3.8 | 5550.040 | 5470 to 5725 | Pass |
|  |  |      | 40  | 3.8 | 5550.040 | 5470 to 5725 | Pass |
|  |  |      | 50  | 3.8 | 5550.000 | 5470 to 5725 | Pass |
|  |  |      | 55  | 3.8 | 5550.080 | 5470 to 5725 | Pass |
|  |  | 5670 | 20  | 3.5 | 5670.000 | 5470 to 5725 | Pass |
|  |  |      |     | 3.8 | 5669.960 | 5470 to 5725 | Pass |
|  |  |      |     | 4.2 | 5669.960 | 5470 to 5725 | Pass |
|  |  |      | -20 | 3.8 | 5670.000 | 5470 to 5725 | Pass |
|  |  |      | -10 | 3.8 | 5670.000 | 5470 to 5725 | Pass |
|  |  |      | 0   | 3.8 | 5669.960 | 5470 to 5725 | Pass |
|  |  |      | 10  | 3.8 | 5670.080 | 5470 to 5725 | Pass |
|  |  |      | 20  | 3.8 | 5670.080 | 5470 to 5725 | Pass |
|  |  |      | 30  | 3.8 | 5670.040 | 5470 to 5725 | Pass |



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|                     |      |      |     |     |          |              |      |
|---------------------|------|------|-----|-----|----------|--------------|------|
|                     |      |      | 40  | 3.8 | 5670.040 | 5470 to 5725 | Pass |
|                     |      |      | 50  | 3.8 | 5670.000 | 5470 to 5725 | Pass |
|                     |      |      | 55  | 3.8 | 5670.040 | 5470 to 5725 | Pass |
|                     |      | 5755 | 20  | 3.5 | 5755.080 | 5725 to 5850 | Pass |
|                     |      |      |     | 3.8 | 5754.960 | 5725 to 5850 | Pass |
|                     |      |      |     | 4.2 | 5755.000 | 5725 to 5850 | Pass |
|                     |      |      | -20 | 3.8 | 5755.040 | 5725 to 5850 | Pass |
|                     |      |      | -10 | 3.8 | 5755.000 | 5725 to 5850 | Pass |
|                     |      |      | 0   | 3.8 | 5755.080 | 5725 to 5850 | Pass |
|                     |      |      | 10  | 3.8 | 5754.960 | 5725 to 5850 | Pass |
|                     |      |      | 20  | 3.8 | 5754.960 | 5725 to 5850 | Pass |
|                     |      |      | 30  | 3.8 | 5755.000 | 5725 to 5850 | Pass |
|                     |      |      | 40  | 3.8 | 5755.040 | 5725 to 5850 | Pass |
|                     |      |      | 50  | 3.8 | 5755.000 | 5725 to 5850 | Pass |
|                     |      |      | 55  | 3.8 | 5755.000 | 5725 to 5850 | Pass |
|                     |      | 5795 | 20  | 3.5 | 5795.040 | 5725 to 5850 | Pass |
|                     |      |      |     | 3.8 | 5795.120 | 5725 to 5850 | Pass |
|                     |      |      |     | 4.2 | 5795.080 | 5725 to 5850 | Pass |
|                     |      |      | -20 | 3.8 | 5795.080 | 5725 to 5850 | Pass |
|                     |      |      | -10 | 3.8 | 5795.000 | 5725 to 5850 | Pass |
|                     |      |      | 0   | 3.8 | 5795.040 | 5725 to 5850 | Pass |
|                     |      |      | 10  | 3.8 | 5795.080 | 5725 to 5850 | Pass |
|                     |      |      | 20  | 3.8 | 5795.000 | 5725 to 5850 | Pass |
|                     |      |      | 30  | 3.8 | 5795.000 | 5725 to 5850 | Pass |
|                     |      |      | 40  | 3.8 | 5795.080 | 5725 to 5850 | Pass |
|                     |      |      | 50  | 3.8 | 5795.000 | 5725 to 5850 | Pass |
|                     |      |      | 55  | 3.8 | 5795.080 | 5725 to 5850 | Pass |
| 802.11ac<br>(VHT80) | SISO | 5210 | 20  | 3.5 | 5210.075 | 5150 to 5250 | Pass |
|                     |      |      |     | 3.8 | 5210.075 | 5150 to 5250 | Pass |
|                     |      |      |     | 4.2 | 5210.075 | 5150 to 5250 | Pass |
|                     |      |      | -20 | 3.8 | 5210.075 | 5150 to 5250 | Pass |
|                     |      |      | -10 | 3.8 | 5210.075 | 5150 to 5250 | Pass |
|                     |      |      | 0   | 3.8 | 5210.075 | 5150 to 5250 | Pass |
|                     |      |      | 10  | 3.8 | 5210.075 | 5150 to 5250 | Pass |
|                     |      |      | 20  | 3.8 | 5210.075 | 5150 to 5250 | Pass |
|                     |      |      | 30  | 3.8 | 5210.000 | 5150 to 5250 | Pass |
|                     |      |      | 40  | 3.8 | 5210.075 | 5150 to 5250 | Pass |
|                     |      |      | 50  | 3.8 | 5210.075 | 5150 to 5250 | Pass |
|                     |      |      | 55  | 3.8 | 5210.075 | 5150 to 5250 | Pass |



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|  |  |      |     |     |          |              |      |
|--|--|------|-----|-----|----------|--------------|------|
|  |  | 5290 | 20  | 3.5 | 5290.075 | 5250 to 5350 | Pass |
|  |  |      |     | 3.8 | 5290.075 | 5250 to 5350 | Pass |
|  |  |      |     | 4.2 | 5290.075 | 5250 to 5350 | Pass |
|  |  |      | -20 | 3.8 | 5290.075 | 5250 to 5350 | Pass |
|  |  |      | -10 | 3.8 | 5290.075 | 5250 to 5350 | Pass |
|  |  |      | 0   | 3.8 | 5290.075 | 5250 to 5350 | Pass |
|  |  |      | 10  | 3.8 | 5290.000 | 5250 to 5350 | Pass |
|  |  |      | 20  | 3.8 | 5290.075 | 5250 to 5350 | Pass |
|  |  |      | 30  | 3.8 | 5290.075 | 5250 to 5350 | Pass |
|  |  |      | 40  | 3.8 | 5290.150 | 5250 to 5350 | Pass |
|  |  |      | 50  | 3.8 | 5530.075 | 5470 to 5725 | Pass |
|  |  |      | 55  | 3.8 | 5290.000 | 5250 to 5350 | Pass |
|  |  | 5530 | 20  | 3.5 | 5530.075 | 5470 to 5725 | Pass |
|  |  |      |     | 3.8 | 5530.000 | 5470 to 5725 | Pass |
|  |  |      |     | 4.2 | 5530.000 | 5470 to 5725 | Pass |
|  |  |      | -20 | 3.8 | 5530.075 | 5470 to 5725 | Pass |
|  |  |      | -10 | 3.8 | 5530.000 | 5470 to 5725 | Pass |
|  |  |      | 0   | 3.8 | 5530.075 | 5470 to 5725 | Pass |
|  |  |      | 10  | 3.8 | 5530.000 | 5470 to 5725 | Pass |
|  |  |      | 20  | 3.8 | 5530.000 | 5470 to 5725 | Pass |
|  |  |      | 30  | 3.8 | 5530.075 | 5470 to 5725 | Pass |
|  |  |      | 40  | 3.8 | 5530.000 | 5470 to 5725 | Pass |
|  |  |      | 50  | 3.8 | 5530.075 | 5470 to 5725 | Pass |
|  |  |      | 55  | 3.8 | 5530.075 | 5470 to 5725 | Pass |
|  |  | 5610 | 20  | 3.5 | 5610.075 | 5470 to 5725 | Pass |
|  |  |      |     | 3.8 | 5610.075 | 5470 to 5725 | Pass |
|  |  |      |     | 4.2 | 5610.075 | 5470 to 5725 | Pass |
|  |  |      | -20 | 3.8 | 5610.075 | 5470 to 5725 | Pass |
|  |  |      | -10 | 3.8 | 5610.075 | 5470 to 5725 | Pass |
|  |  |      | 0   | 3.8 | 5610.075 | 5470 to 5725 | Pass |
|  |  |      | 10  | 3.8 | 5610.075 | 5470 to 5725 | Pass |
|  |  |      | 20  | 3.8 | 5610.075 | 5470 to 5725 | Pass |
|  |  |      | 30  | 3.8 | 5610.075 | 5470 to 5725 | Pass |
|  |  |      | 40  | 3.8 | 5610.075 | 5470 to 5725 | Pass |
|  |  | 5775 | 20  | 3.8 | 5610.000 | 5470 to 5725 | Pass |
|  |  |      |     | 3.5 | 5775.075 | 5725 to 5850 | Pass |
|  |  |      |     | 3.8 | 5775.075 | 5725 to 5850 | Pass |
|  |  |      | -20 | 4.2 | 5775.075 | 5725 to 5850 | Pass |



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|  |  |  |     |     |          |              |      |
|--|--|--|-----|-----|----------|--------------|------|
|  |  |  | -10 | 3.8 | 5775.075 | 5725 to 5850 | Pass |
|  |  |  | 0   | 3.8 | 5775.075 | 5725 to 5850 | Pass |
|  |  |  | 10  | 3.8 | 5775.075 | 5725 to 5850 | Pass |
|  |  |  | 20  | 3.8 | 5775.075 | 5725 to 5850 | Pass |
|  |  |  | 30  | 3.8 | 5775.075 | 5725 to 5850 | Pass |
|  |  |  | 40  | 3.8 | 5775.075 | 5725 to 5850 | Pass |
|  |  |  | 50  | 3.8 | 5775.075 | 5725 to 5850 | Pass |
|  |  |  | 55  | 3.8 | 5775.075 | 5725 to 5850 | Pass |

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