

**SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch**

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200457605

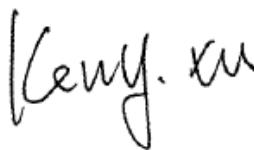
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**TEST REPORT**

**Application No.:** SZCR2412004576AT  
**Applicant:** Grandstream Networks, Inc.  
**Address of Applicant:** 126 Brookline Ave., 3rd Floor Boston, MA 02215, USA  
**Manufacturer:** Grandstream Networks, Inc.  
**Address of Manufacturer:** 126 Brookline Ave., 3rd Floor Boston, MA 02215, USA  
**Equipment Under Test (EUT):**  
**EUT Name:** In-Wall Wi-Fi 7 Access Point  
**Model No.:** GWN7670WM  
**Trade Mark:** GRANDSTREAM  
**FCC ID:** YZZGWN7670WM  
**Standard(s) :** 47 CFR Part 15, Subpart E 15.407  
**Date of Receipt:** 2024-12-05  
**Date of Test:** 2024-12-09 to 2025-01-24  
**Date of Issue:** 2025-02-17

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

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



Keny Xu  
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Testing & EEC Laboratory

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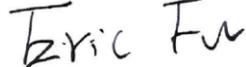
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Report No.: SZCR241200457605

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| <b>Revision Record</b> |                |             |                 |               |
|------------------------|----------------|-------------|-----------------|---------------|
| <b>Version</b>         | <b>Chapter</b> | <b>Date</b> | <b>Modifier</b> | <b>Remark</b> |
| 01                     |                | 2025-02-17  |                 | Original      |
|                        |                |             |                 |               |
|                        |                |             |                 |               |

|                                 |  |                              |  |
|---------------------------------|--|------------------------------|--|
| <b>Authorized for issue by:</b> |  |                              |  |
|                                 |   | Calvin Weng                  |  |
|                                 |  | Calvin Weng/Project Engineer |  |
|                                 |  | Eric Fu                      |  |
|                                 |  | Eric Fu/Reviewer             |  |

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## 2 Test Summary

| <b>Radio Spectrum Technical Requirement</b> |                                  |               |                                      |               |
|---|----------------------------------|---------------|--------------------------------------|---------------|
| <b>Item</b>                                 | <b>Standard</b>                  | <b>Method</b> | <b>Requirement</b>                   | <b>Result</b> |
| Antenna Requirement                         | 47 CFR Part 15, Subpart E 15.407 | N/A           | 47 CFR Part 15, Subpart C 15.203     | Pass          |
| Transmission in the Absence of Data         |                                  | N/A           | 47 CFR Part 15, Subpart E 15.407 (c) | Pass          |

| <b>Radio Spectrum Matter Part</b>                     |                                  |                                    |  |               |
|---|----------------------------------|------------------------------------|--|---------------|
| <b>Item</b>   | <b>Standard</b>                  | <b>Method</b>                      | <b>Requirement</b>                                       | <b>Result</b> |
| Conducted Emissions at AC Power Line (150kHz-30MHz)   | 47 CFR Part 15, Subpart E 15.407 | ANSI C63.10 (2013) Section 6.2     | 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9) | Pass          |
| Maximum Conducted output power                        |                                  | ANSI C63.10 (2013) Section 12.3    | 47 CFR Part 15, Subpart E 15.407 (a)                     | Pass          |
| Radiated Emissions (Below 1GHz)                       |                                  | ANSI C63.10 (2013) Section 6.4,6.5 | 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)   | Pass          |
| Radiated Emissions (Above 1GHz)                       |                                  | ANSI C63.10 (2013) Section 6.6     | 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)   | Pass          |
| Radiated Emissions which fall in the restricted bands |                                  | ANSI C63.10 (2013) Section 6.10.5  | 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)   | Pass          |
| Duty Cycle  |                                  | ANSI C63.10 (2013) Section 12.2    | ANSI C63.10 (2013) Section 12.2                          | Pass          |
| 99% Bandwidth   |                                  | ANSI C63.10 (2013) Section 12.4.2  | ANSI C63.10 (2013) Section 12.4.2                        | Pass          |
| Minimum 6 dB bandwidth (5.725-5.85 GHz band )         |                                  | ANSI C63.10 (2013) Section 6.9.2   | 47 CFR Part 15, Subpart E 15.407 (e)                     | Pass          |
| Peak Power spectrum density                           |                                  | ANSI C63.10 (2013) Section 12.5    | 47 CFR Part 15, Subpart E 15.407 (a)                     | Pass          |
| Frequency Stability                                   |                                  | ANSI C63.10 (2013) Section 6.8     | 47 CFR Part 15, Subpart E 15.407 (g)                     | Pass          |

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## 4 General Information

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

|  |   |
|--|---|
| Power supply:                                      | Powered by POE DC48V  |
| Cable Loss (for RF conducted test):                | 1.5dB   |
| Operation Frequency / Number of channels (20MHz):  | U-NII-3/4: 5845-5885MHz (3 Channels)  |
| Operation Frequency / Number of channels(40MHz):   | U-NII-3/4: 5835-5875MHz (2 Channels)  |
| Operation Frequency / Number of channels (80MHz):  | U-NII-3/4: 5855MHz (1 Channel)  |
| Operation Frequency / Number of channels (160MHz): | U-NII-3/4: 5815MHz (1 Channel)  |
| Modulation Type:                                   | 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK);<br>802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM);<br>802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM);<br>802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM);<br>802.11be: OFDMA with enhancements (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM, 4096-QAM) |
| Channel Spacing:                                   | 802.11a/n/ac/ax/be 20: 20MHz;<br>802.11n/ac/ax/be 40: 40MHz;  |
| Antenna Type:                                      | PIFA Antenna  |
| Antenna Gain:                                      | Ant1: 4.16dBi, Ant2: 4.3dBi   |

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### 4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|------------|
| --          | --           | --        | --         |

The EUT has been tested as an independent unit.



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### 4.3 Measurement Uncertainty

| Test Item   | Measurement Uncertainty                     |
|---|---|
| Conducted Emissions at AC Power Line (150kHz-30MHz)   | ± 3.1dB                                     |
| Maximum Conducted output power                        | ± 0.75dB                                    |
| Radiated Emissions (Below 1GHz)                       | ± 6.0dB for 3m; ± 5.0dB for 10m             |
| Radiated Emissions (Above 1GHz)                       | ± 4.6dB (1-18GHz);± 4.8dB (18-40GHz)        |
| Radiated Emissions which fall in the restricted bands | ± 6.0dB (below 1GHz); ± 4.6dB (above 1GHz); |
| Duty Cycle  | ± 0.37%                                     |
| 99% Bandwidth   | ± 3%  |
| 26dB Emission bandwidth                               | ± 3%  |
| Minimum 6 dB bandwidth (5.725-5.85 GHz band )         | ± 3%  |
| Peak Power spectrum density                           | ± 2.84dB                                    |
| Frequency Stability                                   | ± 7.25 x 10-8                               |



#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

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No tests were sub-contracted.

#### 4.5 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd.

Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

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

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None

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## 5 Equipment List

| Conducted Emissions at AC Power Line (150kHz-30MHz) |                  |                  |               |            |              |
|---|------------------|------------------|---------------|------------|--------------|
| Equipment   | Manufacturer     | Model No.        | Inventory No. | Cal Date   | Cal Due Date |
| Shielding Room                                      | ZhongYu Electron | GB-88            | SEM001-06     | 2022-05-14 | 2025-05-13   |
| EMI Test Receiver                                   | Rohde&Schwarz    | ESR              | SZ-WRG-M-047  | 2024-01-30 | 2025-01-29   |
| Matching Pad  | N/A              | N/A              | SEM021-23     | 2024-03-20 | 2025-03-19   |
| Matching Pad  | N/A              | N/A              | SEM021-24     | 2024-03-20 | 2025-03-19   |
| Measurement Software                                | AUDIX            | e3 V8.2014-6-27a | N/A           | N/A        | N/A          |
| Coaxial Cable                                       | SGS              | N/A              | SEM024-01     | 2024-07-06 | 2025-07-05   |
| LISN  | Rohde&Schwarz    | ENV216           | SEM007-01     | 2024-08-15 | 2025-08-14   |
| LISN  | ETS-LINDGREN     | 3816/2           | SEM007-02     | 2024-03-14 | 2025-03-13   |

| Maximum Conducted output power              |                              |               |               |            |              |
|---|------------------------------|---------------|---------------|------------|--------------|
| Equipment                                   | Manufacturer                 | Model No.     | Inventory No. | Cal Date   | Cal Due Date |
| Power Sensor                                | TST PASS                     | TSPS2023R     | SEM009-26     | 2024-03-27 | 2025-03-26   |
| Power Sensor                                | KEYSIGHT                     | U2021XA       | SEM009-16     | 2024-03-14 | 2025-03-13   |
| DC Power Supply                             | Chroma                       | 62012P-80-60  | SEM011-11     | 2024-08-14 | 2025-08-13   |
| MXA Signal Analyzer                         | KEYSIGHT                     | N9020A        | SEM004-19     | 2024-03-14 | 2025-03-13   |
| Signal Generator                            | KEYSIGHT                     | N5173B        | SEM006-05     | 2024-09-14 | 2025-09-13   |
| Measurement Software                        | TST PASS                     | TST PASS V2.0 | N/A           | N/A        | N/A          |
| Coaxial Cable                               | SGS                          | N/A           | SEM031-01     | 2024-07-06 | 2025-07-05   |
| Attenuator                                  | Huber+Suhner                 | 6620_SMA-50-1 | SEM021-09     | 2024-03-27 | 2025-03-26   |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002       | SEM002-15     | 2024-03-19 | 2025-03-18   |

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# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200457605

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| Radiated Emissions (Below 1GHz) |                      |                 |               |            |              |
|---------------------------------|----------------------|-----------------|---------------|------------|--------------|
| Equipment                       | Manufacturer         | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| Loop Antenna                    | ETS-Lindgren         | 6502            | SEM003-08     | 2023-11-20 | 2025-11-19   |
| 3m Semi-Anechoic Chamber        | ETS-LINDGREN         | N/A             | SEM001-01     | 2023-06-19 | 2026-06-18   |
| MXE EMI Receiver                | Agilent Technologies | N9038A          | SEM004-15     | 2024-08-14 | 2025-08-13   |
| BiConiLog Antenna               | ETS-LINDGREN         | 3142C           | SEM003-01     | 2023-09-16 | 2025-09-15   |
| Pre-Amplifier                   | Agilent Technologies | 8447D           | SEM005-01     | 2024-03-14 | 2025-03-13   |
| Measurement Software            | AUDIX                | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |
| Coaxial Cable                   | SGS                  | N/A             | SEM025-01     | 2024-07-06 | 2025-07-05   |

| Radiated Emissions (Above 1GHz) |                                    |                 |               |            |              |
|---------------------------------|------------------------------------|-----------------|---------------|------------|--------------|
| Equipment                       | Manufacturer                       | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| 3m Fully-Anechoic Chamber       | AUDIX                              | N/A             | SEM001-02     | 2024-05-11 | 2027-05-10   |
| Signal Analyzer                 | Rohde & Schwarz                    | FSV40           | SEM008-04     | 2024-03-15 | 2025-03-14   |
| Horn Antenna                    | Rohde&Schwarz                      | HF907           | SEM003-07     | 2023-07-23 | 2025-07-22   |
| Microwave system amplifier      | Agilent                            | 83017A          | SEM005-25     | 2024-09-14 | 2025-09-13   |
| Measurement Software            | AUDIX                              | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |
| Coaxial Cable                   | SGS                                | N/A             | SEM026-01     | 2024-07-06 | 2025-07-05   |
| Broad-Band Horn Antenna         | Schwarzbeck                        | BBHA 9170       | SEM003-15     | 2024-08-10 | 2025-08-09   |
| Pre-Amplifier                   | Compliance Directions Systems Inc. | PAP-2640-50     | SEM005-08     | 2024-03-15 | 2025-03-14   |

| Radiated Emissions which fall in the restricted bands |                 |                 |               |            |              |
|---|-----------------|-----------------|---------------|------------|--------------|
| Equipment   | Manufacturer    | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| 3m Fully-Anechoic Chamber                             | AUDIX           | N/A             | SEM001-02     | 2024-05-11 | 2027-05-10   |
| Signal Analyzer                                       | Rohde & Schwarz | FSV40           | SEM008-04     | 2024-03-15 | 2025-03-14   |
| Horn Antenna  | Rohde&Schwarz   | HF907           | SEM003-07     | 2023-07-23 | 2025-07-22   |
| Microwave system amplifier                            | Agilent         | 83017A          | SEM005-25     | 2024-09-14 | 2025-09-13   |
| Measurement Software                                  | AUDIX           | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |
| Coaxial Cable   | SGS             | N/A             | SEM026-01     | 2024-07-06 | 2025-07-05   |



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**RF Conducted Test**

| Equipment                                   | Manufacturer                 | Model No.     | Inventory No. | Cal Date   | Cal Due Date |
|---|------------------------------|---------------|---------------|------------|--------------|
| DC Power Supply                             | Chroma                       | 62012P-80-60  | SEM011-11     | 2024-08-14 | 2025-08-13   |
| MXA Signal Analyzer                         | KEYSIGHT                     | N9020A        | SEM004-19     | 2024-03-14 | 2025-03-13   |
| Signal Generator                            | KEYSIGHT                     | N5173B        | SEM006-05     | 2024-09-14 | 2025-09-13   |
| Measurement Software                        | TST PASS                     | TST PASS V2.0 | N/A           | N/A        | N/A          |
| Coaxial Cable                               | SGS                          | N/A           | SEM031-01     | 2024-07-06 | 2025-07-05   |
| Attenuator                                  | Huber+Suhner                 | 6620_SMA-50-1 | SEM021-09     | 2024-03-27 | 2025-03-26   |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002       | SEM002-15     | 2024-03-19 | 2025-03-18   |

**General used equipment**

| Equipment                       | Manufacturer                              | Model No. | Inventory No. | Cal Date   | Cal Due Date |
|---------------------------------|---|-----------|---------------|------------|--------------|
| Humidity/ Temperature Indicator | deli                                      | 8838      | SEM002-32     | 2024-07-24 | 2025-07-23   |
| Humidity/ Temperature Indicator | deli                                      | 8838      | SEM002-33     | 2024-07-24 | 2025-07-23   |
| Barometer                       | Changchun Meteorological Industry Factory | DYM3      | SEM002-01     | 2024-03-18 | 2025-03-17   |

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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

15.203 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 permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is Ant1: 4.16dBi, Ant2: 4.3dBi, directional gain: (4.3+3.01)dB=7.31dBi

Antenna location: Refer to internal photos



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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 detects 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 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 &amp; Subpart E 15.407 b(9)

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

| Frequency of emission(MHz) | Conducted limit(dB $\mu$ V) |           |
|----------------------------|-----------------------------|-----------|
|                            | Quasi-peak                  | Average   |
| 0.15-0.5                   | 66 to 56*                   | 56 to 46* |
| 0.5-5                      | 56                          | 46        |
| 5-30                       | 60                          | 50        |

\*Decreases with the logarithm of the frequency.

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

Operating Environment:

Temperature: 22.5 °C

Humidity: 44.5 % RH

Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description   |
|-----------------------|-----------|---|
| Final test            | 08        | TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |

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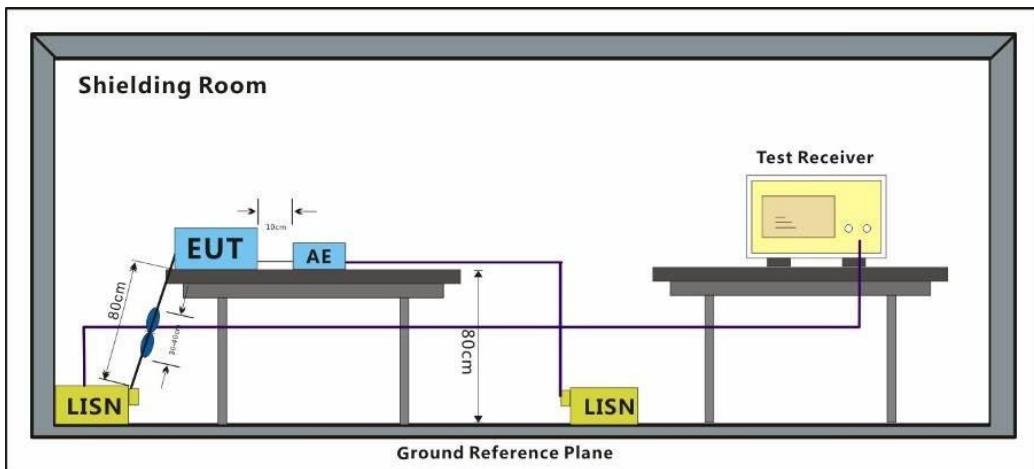
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### 7.1.3 Test Setup Diagram



#### 7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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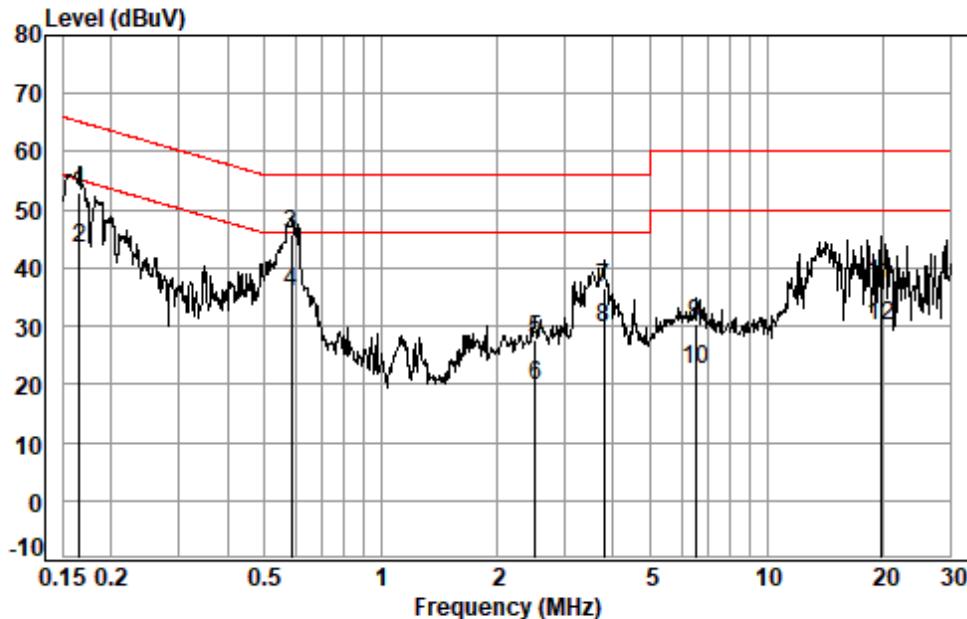
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Test Mode: 08; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 04576AT

Test mode: 08

| Freq | Cable   | LISN | Read   | Limit | Over  | Remark |                |
|------|---------|------|--------|-------|-------|--------|----------------|
|      | Freq    | Loss | Factor |       |       |        |                |
|      | MHz     | dB   | dB     | dBuV  | dBuV  | dBuV   | dB             |
| 1    | 0.1659  | 0.06 | 9.81   | 43.01 | 52.88 | 65.16  | -12.28 QP      |
| 2    | 0.1659  | 0.06 | 9.81   | 33.65 | 43.52 | 55.16  | -11.64 Average |
| 3 *  | 0.5854  | 0.08 | 9.71   | 35.99 | 45.78 | 56.00  | -10.22 QP      |
| 4 *  | 0.5854  | 0.08 | 9.71   | 26.07 | 35.86 | 46.00  | -10.14 Average |
| 5    | 2.5133  | 0.11 | 9.65   | 17.78 | 27.54 | 56.00  | -28.46 QP      |
| 6    | 2.5133  | 0.11 | 9.65   | 10.07 | 19.83 | 46.00  | -26.17 Average |
| 7    | 3.7794  | 0.11 | 9.65   | 26.90 | 36.66 | 56.00  | -19.34 QP      |
| 8    | 3.7794  | 0.11 | 9.65   | 19.77 | 29.53 | 46.00  | -16.47 Average |
| 9    | 6.5227  | 0.15 | 9.80   | 20.45 | 30.40 | 60.00  | -29.60 QP      |
| 10   | 6.5227  | 0.15 | 9.80   | 12.45 | 22.40 | 50.00  | -27.60 Average |
| 11   | 19.7397 | 0.30 | 10.17  | 26.89 | 37.36 | 60.00  | -22.64 QP      |
| 12   | 19.7397 | 0.30 | 10.17  | 19.67 | 30.14 | 50.00  | -19.86 Average |

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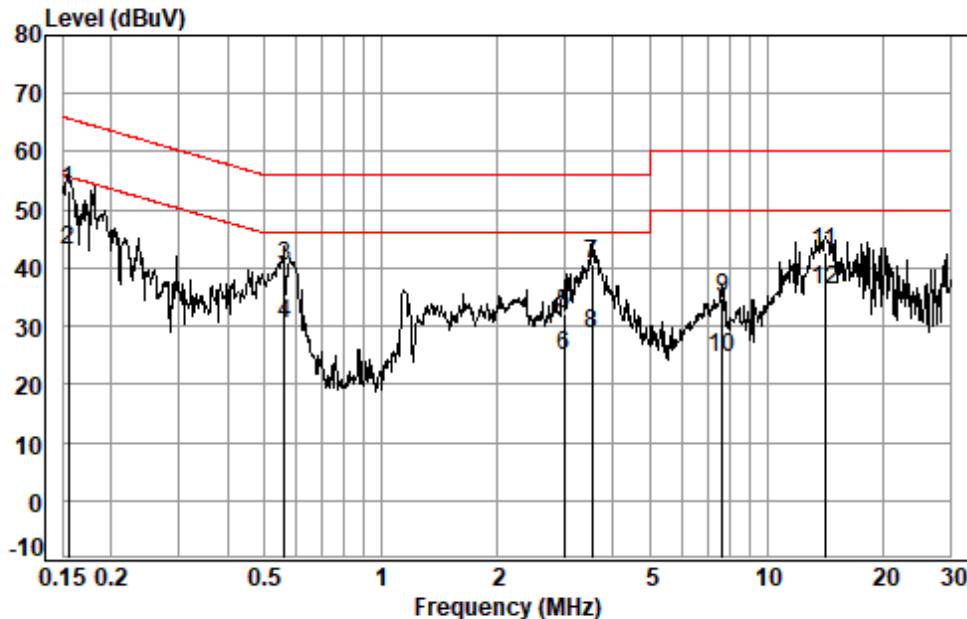
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Test Mode: 08; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 04576AT

Test mode: 08

| Freq | Cable Loss | LISN Factor | Read  | Limit Line | Over Limit | Remark               |
|------|------------|-------------|-------|------------|------------|----------------------|
|      |            |             | Level |            |            |                      |
| MHz  | dB         | dB          | dBuV  | dBuV       | dBuV       | dB                   |
| 1 *  | 0.1548     | 0.06        | 9.82  | 43.50      | 53.38      | 65.74 -12.36 QP      |
| 2 *  | 0.1548     | 0.06        | 9.82  | 33.23      | 43.11      | 55.74 -12.63 Average |
| 3    | 0.5611     | 0.08        | 9.72  | 30.40      | 40.20      | 56.00 -15.80 QP      |
| 4    | 0.5611     | 0.08        | 9.72  | 20.74      | 30.54      | 46.00 -15.46 Average |
| 5    | 2.9776     | 0.11        | 9.67  | 22.41      | 32.19      | 56.00 -23.81 QP      |
| 6    | 2.9776     | 0.11        | 9.67  | 15.29      | 25.07      | 46.00 -20.93 Average |
| 7    | 3.5278     | 0.11        | 9.67  | 30.77      | 40.55      | 56.00 -15.45 QP      |
| 8    | 3.5278     | 0.11        | 9.67  | 18.77      | 28.55      | 46.00 -17.45 Average |
| 9    | 7.6870     | 0.17        | 9.86  | 24.72      | 34.75      | 60.00 -25.25 QP      |
| 10   | 7.6870     | 0.17        | 9.86  | 14.51      | 24.54      | 50.00 -25.46 Average |
| 11   | 14.1376    | 0.25        | 10.15 | 32.27      | 42.67      | 60.00 -17.33 QP      |
| 12   | 14.1376    | 0.25        | 10.15 | 25.67      | 36.07      | 50.00 -13.93 Average |

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## 7.2 Maximum Conducted output power

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

Test Method: ANSI C63.10 (2013) Section 12.3

Limit:

| Frequency band(MHz) | Limit  |
|---------------------|--|
| 5150-5250           | $\leq 1W(30dBm)$ for master device   |
|                     | $\leq 250mW(24dBm)$ for client device  |
| 5250-5350           | $\leq 250mW(24dBm)$ or $11dBm+10\log B^*$  |
| 5470-5725           | $\leq 250mW(24dBm)$ or $11dBm+10\log B^*$  |
| 5725-5850           | $\leq 1W(30dBm)$   |
| 5850-5895           | $\leq 36dBm$ EIRP  |
| Remark:             | <p>* Where B is the 26dB emission bandwidth in MHz.<br/>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> |

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C

Humidity: 34.1 % RH

Atmospheric Pressure: 1020 mbar

### 7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description   |
|-----------------------|-----------|---|
| Final test            | 08        | TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |

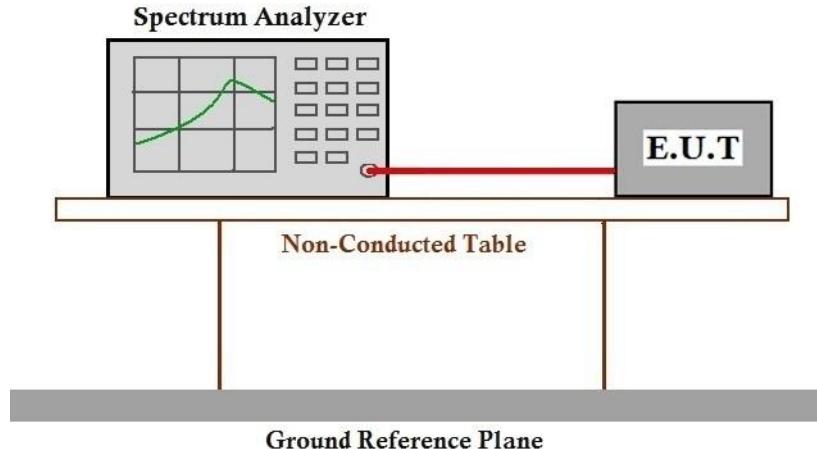
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### 7.2.3 Test Setup Diagram



### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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**7.3 Radiated Emissions (Below 1GHz)**

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

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                            |

**7.3.1 E.U.T. Operation**

Operating Environment:

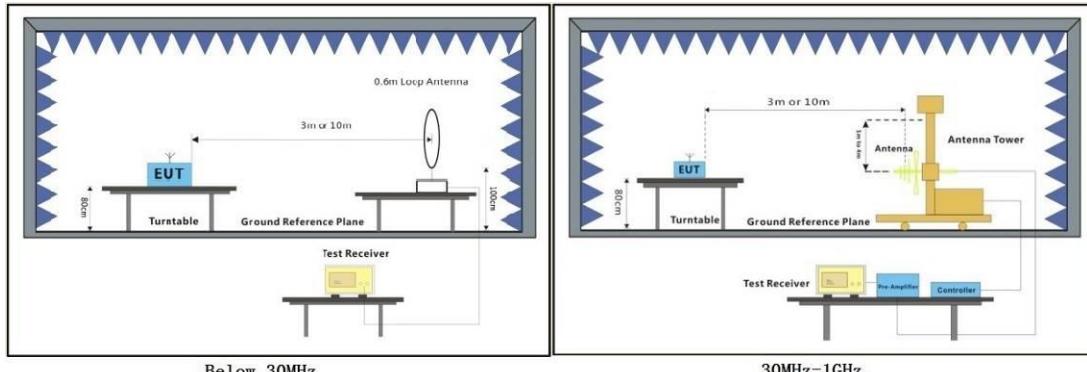
Temperature: 21.2 °C

Humidity: 46.2 % RH

Atmospheric Pressure: 1020 mbar

**7.3.2 Test Mode Description**

| Pre-scan / Final test | Mode Code | Description   |
|-----------------------|-----------|---|
| Final test            | 08        | TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |

**7.3.3 Test Setup Diagram**

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**7.3.4 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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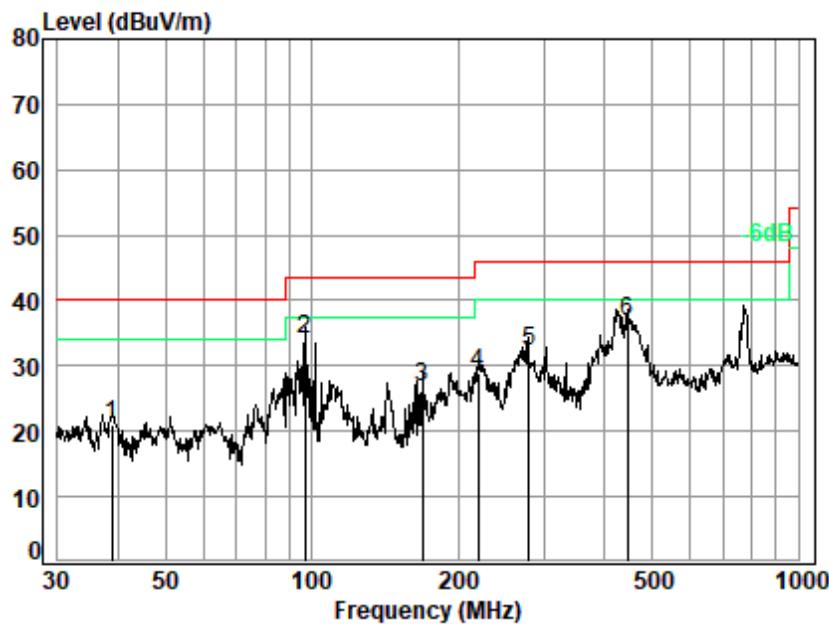
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Test Mode: 08; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 04576AT/04577AT

Test Mode: 08

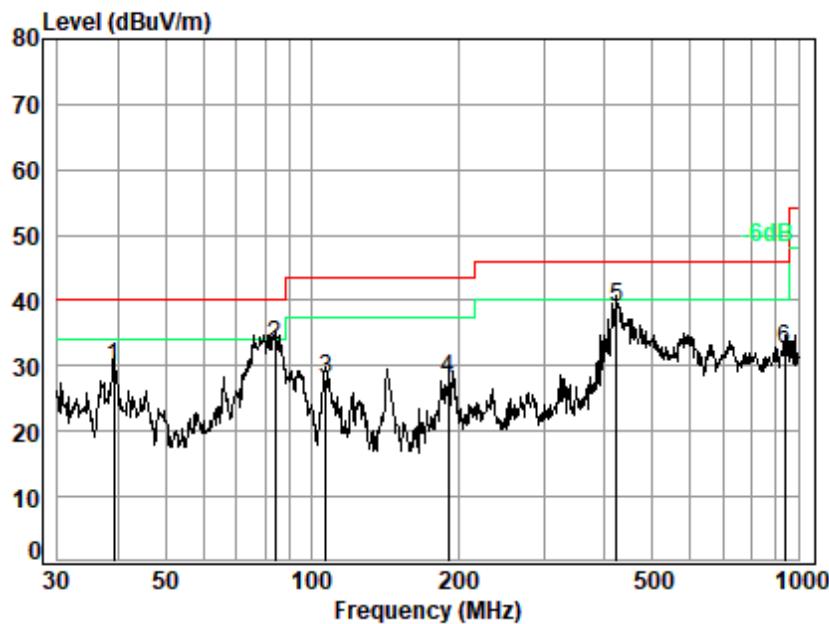
| Freq | Ant Factor | Cable Loss | Preamp Factor | Read Level | Limit  |        | Over Line | Over Limit | Remark |
|------|------------|------------|---------------|------------|--------|--------|-----------|------------|--------|
|      |            |            |               |            | dB     | dBuV   |           |            |        |
| MHz  | dB/m       |            |               |            | dBuV/m | dBuV/m |           |            |        |
| 1    | 38.752     | 16.95      | 0.77          | 27.77      | 30.89  | 20.84  | 40.00     | -19.16     | QP     |
| 2    | 96.775     | 12.19      | 1.20          | 27.60      | 48.21  | 34.00  | 43.50     | -9.50      | QP     |
| 3    | 168.414    | 13.19      | 1.63          | 27.30      | 39.23  | 26.75  | 43.50     | -16.75     | QP     |
| 4    | 219.845    | 15.14      | 1.86          | 27.09      | 39.11  | 29.02  | 46.00     | -16.98     | QP     |
| 5    | 279.044    | 16.94      | 2.12          | 26.84      | 40.16  | 32.38  | 46.00     | -13.62     | QP     |
| 6 q  | 446.414    | 21.14      | 2.75          | 27.35      | 40.16  | 36.70  | 46.00     | -9.30      | QP     |



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Test Mode: 08; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 04576AT/04577AT  
Test Mode: 08

| Freq | Ant Factor | Cable Loss | Preamp Factor | Read  | Limit Line | Over Limit | Remark          |
|------|------------|------------|---------------|-------|------------|------------|-----------------|
|      |            |            |               | Level |            |            |                 |
| MHz  | dB/m       | dB         | dB            | dBuV  | dBuV/m     | dBuV/m     | dB              |
| 1    | 39.162     | 16.77      | 0.77          | 27.77 | 39.92      | 29.69      | 40.00 -10.31 QP |
| 2 q  | 84.110     | 10.89      | 1.12          | 27.64 | 48.89      | 33.26      | 40.00 -6.74 QP  |
| 3    | 106.759    | 12.15      | 1.27          | 27.56 | 42.05      | 27.91      | 43.50 -15.59 QP |
| 4    | 191.074    | 14.28      | 1.72          | 27.21 | 39.27      | 28.06      | 43.50 -15.44 QP |
| 5    | 422.058    | 20.67      | 2.66          | 27.25 | 42.80      | 38.88      | 46.00 -7.12 QP  |
| 6    | 938.833    | 28.15      | 4.22          | 26.49 | 26.69      | 32.57      | 46.00 -13.43 QP |

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**7.4 Radiated Emissions (Above 1GHz)**

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

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| Above 1GHz     | 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.

For transmitters operating solely in the 5.850–5.895 GHz band or operating on a channel that spans across 5.725–5.895 GHz:

For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz.

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.

**7.4.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.5 °C      Humidity: 56.3 % RH      Atmospheric Pressure: 1020 mbar

**7.4.2 Test Mode Description**

| Pre-scan / Final test | Mode Code | Description   |
|-----------------------|-----------|---|
| Final test            | 08        | TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |



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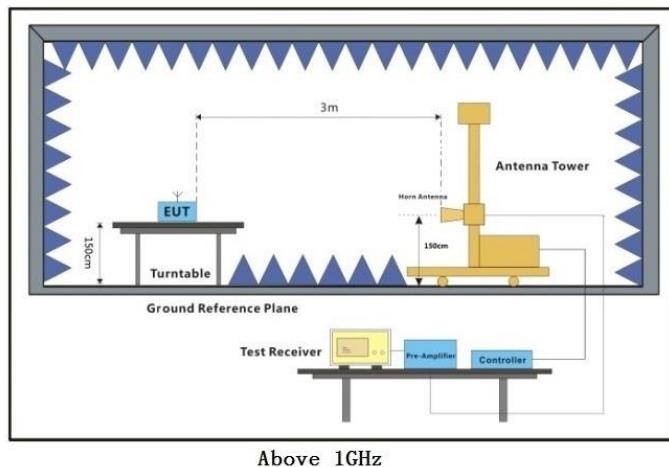
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### 7.4.3 Test Setup Diagram



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**7.4.4 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.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
6. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
7. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.



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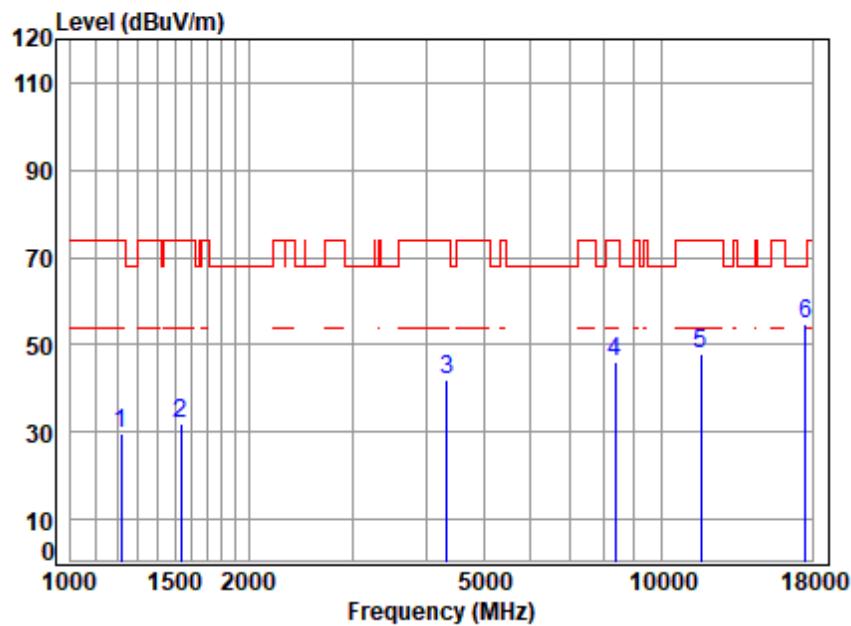
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04576AT/04577AT  
Mode : 5845 TX RSE  
Note : 5G WIFI 11A

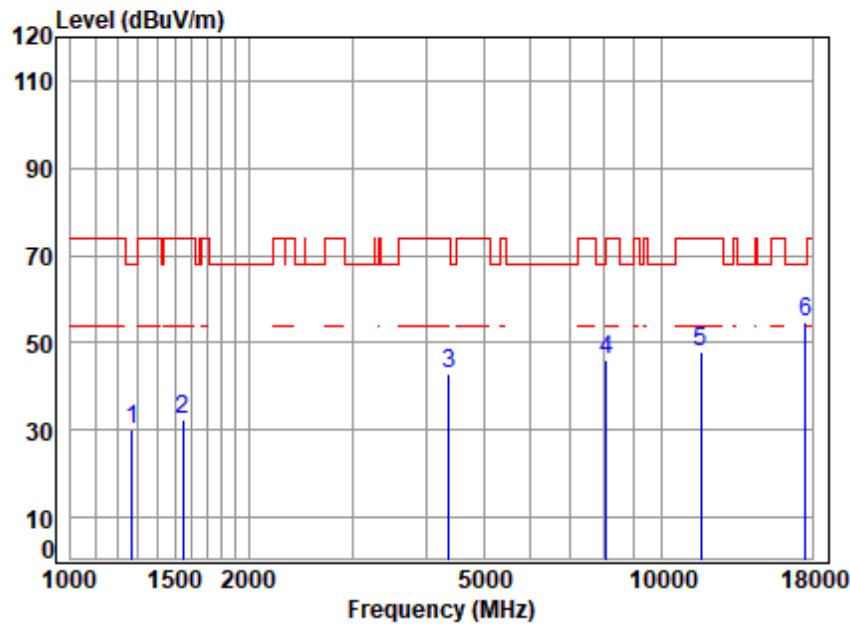
|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1217.190   | 3.71  | 24.64  | 54.69  | 56.11 | 29.77  | 74.00  | -44.23 peak |
| 2 | 1538.281   | 4.10  | 26.95  | 54.79  | 55.89 | 32.15  | 74.00  | -41.85 peak |
| 3 | 4341.886   | 7.07  | 34.34  | 54.26  | 54.82 | 41.97  | 74.00  | -32.03 peak |
| 4 | 8343.918   | 9.38  | 36.70  | 53.28  | 53.44 | 46.24  | 74.00  | -27.76 peak |
| 5 | 11690.000  | 11.95 | 37.88  | 53.14  | 51.03 | 47.72  | 74.00  | -26.28 peak |
| 6 | p17535.000 | 14.93 | 43.47  | 52.63  | 48.80 | 54.57  | 68.20  | -13.63 peak |

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Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04576AT/04577AT  
 Mode : 5845 TX RSE  
 Note : 5G WIFI 11A

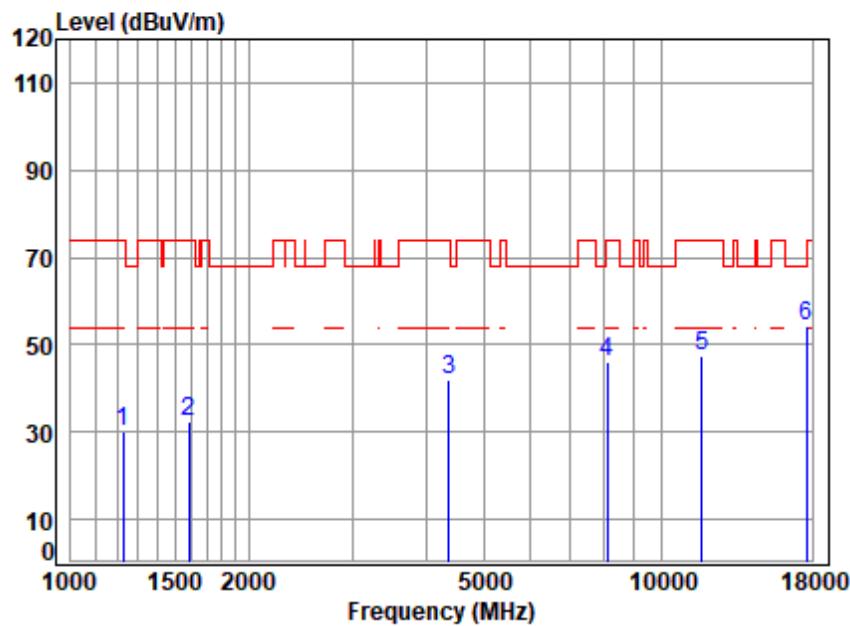
|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1271.123   | 3.77  | 24.97  | 54.70  | 56.23 | 30.27  | 68.20  | -37.93 peak |
| 2 | 1547.199   | 4.11  | 26.99  | 54.79  | 55.92 | 32.23  | 74.00  | -41.77 peak |
| 3 | 4367.058   | 7.10  | 34.54  | 54.26  | 55.54 | 42.92  | 74.00  | -31.08 peak |
| 4 | 8059.475   | 9.09  | 36.42  | 53.13  | 53.91 | 46.29  | 74.00  | -27.71 peak |
| 5 | 11690.000  | 11.95 | 37.88  | 53.14  | 51.40 | 48.09  | 74.00  | -25.91 peak |
| 6 | p17535.000 | 14.93 | 43.47  | 52.63  | 48.93 | 54.70  | 68.20  | -13.50 peak |

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04576AT/04577AT  
 Mode : 5865 TX RSE  
 Note : 5G WIFI 11A

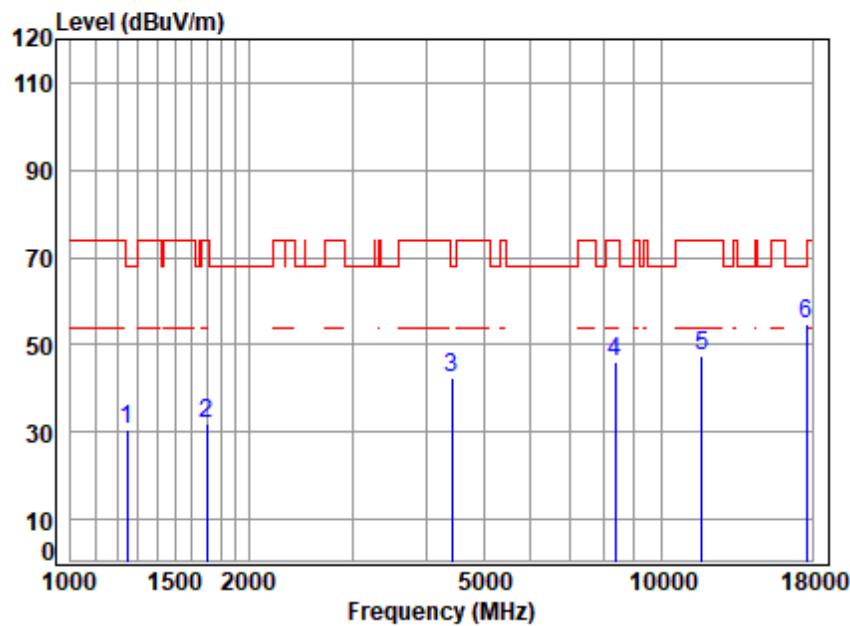
|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1227.791   | 3.72  | 24.79  | 54.69  | 56.46 | 30.28  | 74.00  | -43.72 peak |
| 2 | 1587.975   | 4.17  | 26.85  | 54.80  | 56.36 | 32.58  | 74.00  | -41.42 peak |
| 3 | 4367.058   | 7.10  | 34.54  | 54.26  | 54.60 | 41.98  | 74.00  | -32.02 peak |
| 4 | 8106.200   | 9.14  | 36.50  | 53.16  | 53.70 | 46.18  | 74.00  | -27.82 peak |
| 5 | 11730.000  | 11.95 | 37.90  | 53.15  | 50.78 | 47.48  | 74.00  | -26.52 peak |
| 6 | p17595.000 | 15.00 | 43.59  | 52.60  | 48.13 | 54.12  | 68.20  | -14.08 peak |

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Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04576AT/04577AT  
 Mode : 5865 TX RSE  
 Note : 5G WIFI 11A

|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1245.663   | 3.74  | 25.04  | 54.70  | 56.30 | 30.38  | 68.20  | -37.82 peak |
| 2 | 1697.129   | 4.32  | 26.21  | 54.83  | 56.20 | 31.90  | 74.00  | -42.10 peak |
| 3 | 4417.841   | 7.16  | 34.59  | 54.26  | 54.94 | 42.43  | 68.20  | -25.77 peak |
| 4 | 8343.918   | 9.38  | 36.70  | 53.28  | 53.30 | 46.10  | 74.00  | -27.90 peak |
| 5 | 11730.000  | 11.95 | 37.90  | 53.15  | 50.68 | 47.38  | 74.00  | -26.62 peak |
| 6 | p17595.000 | 15.00 | 43.59  | 52.60  | 48.66 | 54.65  | 68.20  | -13.55 peak |

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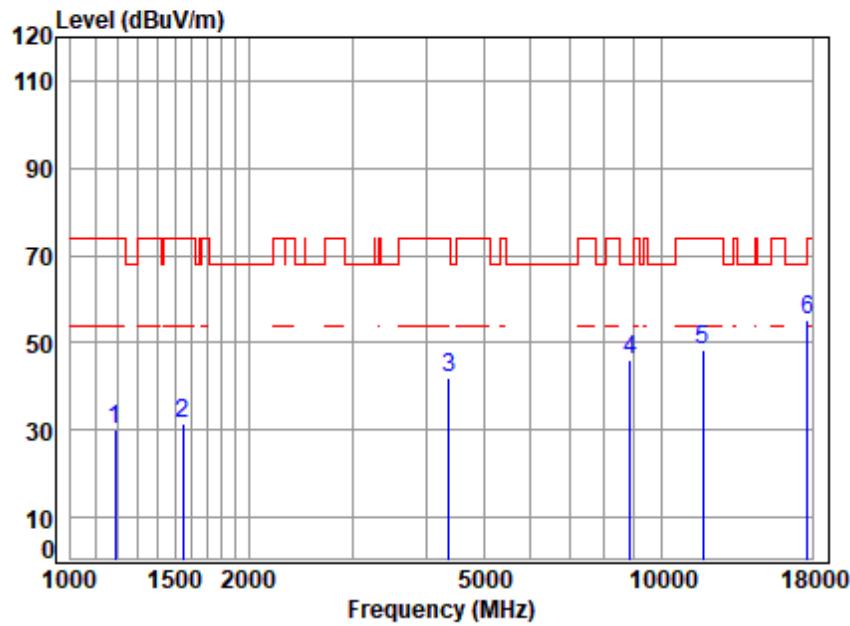
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SGS-CSTC Standards Technical Services Co., Ltd.  
 Shenzhen Branch (SGS-CSTC Laboratory)



Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04576AT/04577AT  
Mode : 5885 TX RSE  
Note : 5G WIFI 11A

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |      |
|------|------------|------------|---------------|------------|-------------|------------|------------|--------|------|
|      |            |            |               |            |             |            |            | MHz    | dB   |
| 1    | 1189.368   | 3.67       | 24.29         | 54.68      | 56.65       | 29.93      | 74.00      | -44.07 | peak |
| 2    | 1547.199   | 4.11       | 26.99         | 54.79      | 55.22       | 31.53      | 74.00      | -42.47 | peak |
| 3    | 4367.058   | 7.10       | 34.54         | 54.26      | 54.78       | 42.16      | 74.00      | -31.84 | peak |
| 4    | 8866.062   | 9.82       | 37.20         | 53.54      | 52.59       | 46.07      | 68.20      | -22.13 | peak |
| 5    | 11770.000  | 11.96      | 37.90         | 53.16      | 51.44       | 48.14      | 74.00      | -25.86 | peak |
| 6    | p17655.000 | 15.07      | 43.71         | 52.57      | 48.87       | 55.08      | 68.20      | -13.12 | peak |

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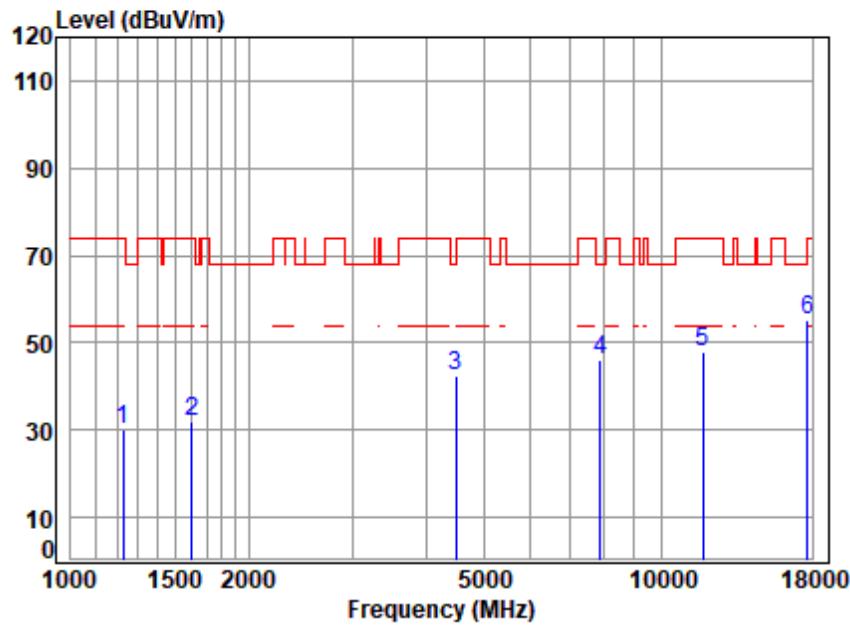
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SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch (SGS-CSTC Laboratory)



Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04576AT/04577AT  
 Mode : 5885 TX RSE  
 Note : 5G WIFI 11A

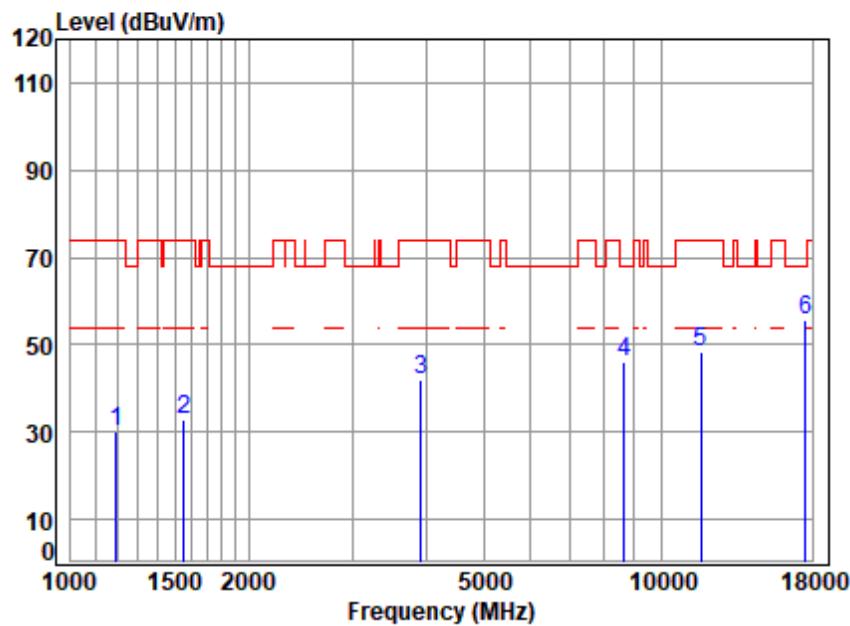
|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1227.791   | 3.72  | 24.79  | 54.69  | 56.41 | 30.23  | 74.00  | -43.77 peak |
| 2 | 1606.441   | 4.19  | 26.74  | 54.81  | 55.67 | 31.79  | 74.00  | -42.21 peak |
| 3 | 4482.150   | 7.23  | 33.81  | 54.25  | 55.49 | 42.28  | 68.20  | -25.92 peak |
| 4 | 7875.254   | 8.88  | 36.45  | 53.11  | 53.73 | 45.95  | 68.20  | -22.25 peak |
| 5 | 11770.000  | 11.96 | 37.90  | 53.16  | 51.13 | 47.83  | 74.00  | -26.17 peak |
| 6 | p17655.000 | 15.07 | 43.71  | 52.57  | 48.94 | 55.15  | 68.20  | -13.05 peak |

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04576AT/04577AT  
 Mode : 5845 TX RSE  
 Note : 5G WIFI 11N20

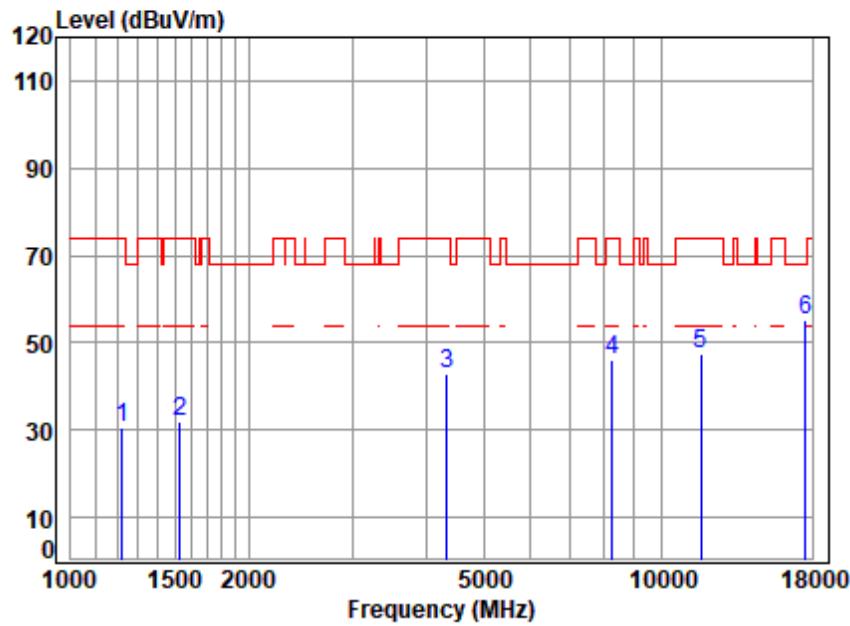
|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1192.811   | 3.67  | 24.33  | 54.68  | 56.74 | 30.06  | 74.00  | -43.94 peak |
| 2 | 1551.677   | 4.12  | 26.99  | 54.79  | 56.55 | 32.87  | 74.00  | -41.13 peak |
| 3 | 3912.809   | 6.63  | 33.72  | 54.35  | 55.99 | 41.99  | 74.00  | -32.01 peak |
| 4 | 8663.404   | 9.66  | 36.90  | 53.44  | 53.07 | 46.19  | 68.20  | -22.01 peak |
| 5 | 11690.000  | 11.95 | 37.88  | 53.14  | 51.69 | 48.38  | 74.00  | -25.62 peak |
| 6 | p17535.000 | 14.93 | 43.47  | 52.63  | 49.87 | 55.64  | 68.20  | -12.56 peak |

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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04576AT/04577AT  
 Mode : 5845 TX RSE  
 Note : 5G WIFI 11N20

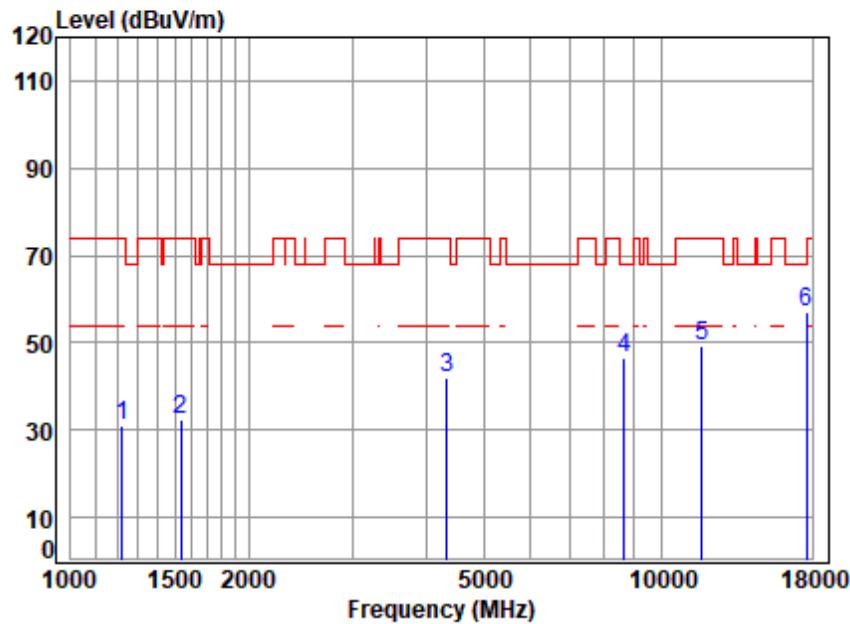
|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1224.247   | 3.71  | 24.74  | 54.69  | 56.84 | 30.60  | 74.00  | -43.40 peak |
| 2 | 1529.414   | 4.08  | 26.92  | 54.78  | 55.71 | 31.93  | 74.00  | -42.07 peak |
| 3 | 4341.886   | 7.07  | 34.34  | 54.26  | 55.81 | 42.96  | 74.00  | -31.04 peak |
| 4 | 8248.005   | 9.28  | 36.70  | 53.23  | 53.43 | 46.18  | 74.00  | -27.82 peak |
| 5 | 11690.000  | 11.95 | 37.88  | 53.14  | 50.88 | 47.57  | 74.00  | -26.43 peak |
| 6 | p17535.000 | 14.93 | 43.47  | 52.63  | 49.45 | 55.22  | 68.20  | -12.98 peak |

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04576AT/04577AT  
 Mode : 5865 TX RSE  
 Note : 5G WIFI 11N20

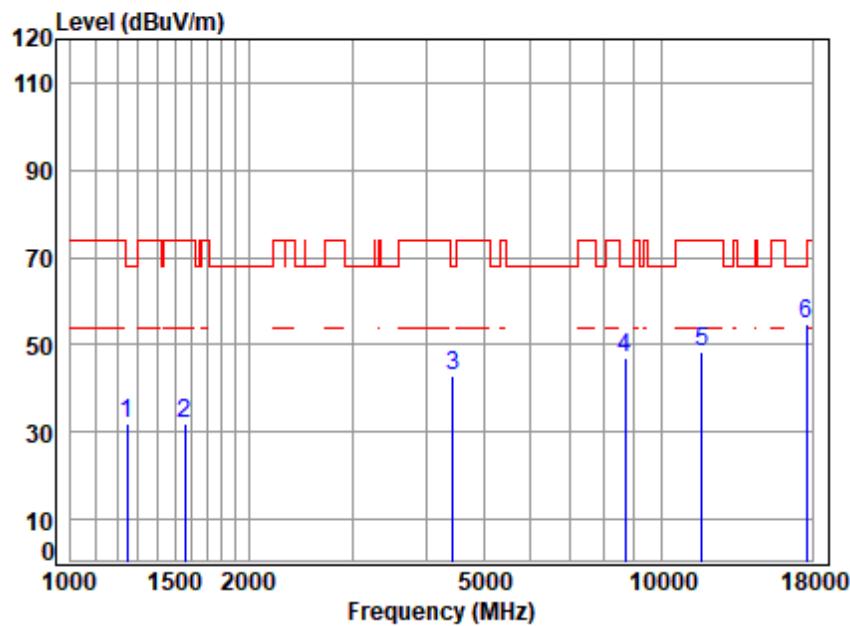
|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1224.247   | 3.71  | 24.74  | 54.69  | 57.10 | 30.86  | 74.00  | -43.14 peak |
| 2 | 1538.281   | 4.10  | 26.95  | 54.79  | 56.08 | 32.34  | 74.00  | -41.66 peak |
| 3 | 4341.886   | 7.07  | 34.34  | 54.26  | 54.93 | 42.08  | 74.00  | -31.92 peak |
| 4 | 8663.404   | 9.66  | 36.90  | 53.44  | 53.20 | 46.32  | 68.20  | -21.88 peak |
| 5 | 11730.000  | 11.95 | 37.90  | 53.15  | 52.42 | 49.12  | 74.00  | -24.88 peak |
| 6 | p17595.000 | 15.00 | 43.59  | 52.60  | 50.87 | 56.86  | 68.20  | -11.34 peak |

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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 04576AT/04577AT  
Mode : 5865 TX RSE  
Note : 5G WIFI 11N20

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |      |
|------|------------|------------|---------------|------------|-------------|------------|------------|--------|------|
|      |            |            |               |            |             |            |            | MHz    | dB   |
| 1    | 1245.663   | 3.74       | 25.04         | 54.70      | 58.04       | 32.12      | 68.20      | -36.08 | peak |
| 2    | 1560.673   | 4.13       | 26.96         | 54.79      | 55.55       | 31.85      | 74.00      | -42.15 | peak |
| 3    | 4430.628   | 7.17       | 34.43         | 54.25      | 55.55       | 42.90      | 68.20      | -25.30 | peak |
| 4    | 8688.480   | 9.68       | 36.90         | 53.45      | 53.66       | 46.79      | 68.20      | -21.41 | peak |
| 5    | 11730.000  | 11.95      | 37.90         | 53.15      | 51.46       | 48.16      | 74.00      | -25.84 | peak |
| 6    | p17595.000 | 15.00      | 43.59         | 52.60      | 48.61       | 54.60      | 68.20      | -13.60 | peak |

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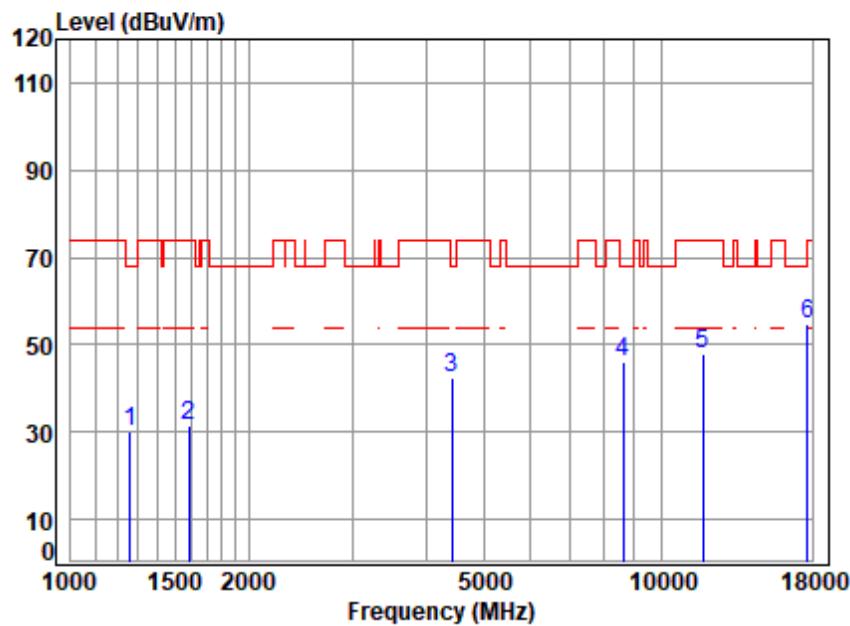
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04576AT/04577AT  
Mode : 5885 TX RSE  
Note : 5G WIFI 11N20

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |      |
|------|------------|------------|---------------|------------|-------------|------------|------------|--------|------|
|      |            |            |               |            |             |            |            | MHz    | dB   |
| 1    | 1260.149   | 3.76       | 25.04         | 54.70      | 55.91       | 30.01      | 68.20      | -38.19 | peak |
| 2    | 1587.975   | 4.17       | 26.85         | 54.80      | 55.26       | 31.48      | 74.00      | -42.52 | peak |
| 3    | 4417.841   | 7.16       | 34.59         | 54.26      | 55.07       | 42.56      | 68.20      | -25.64 | peak |
| 4    | 8613.468   | 9.62       | 36.90         | 53.41      | 53.19       | 46.30      | 68.20      | -21.90 | peak |
| 5    | 11770.000  | 11.96      | 37.90         | 53.16      | 51.03       | 47.73      | 74.00      | -26.27 | peak |
| 6    | p17655.000 | 15.07      | 43.71         | 52.57      | 48.53       | 54.74      | 68.20      | -13.46 | peak |

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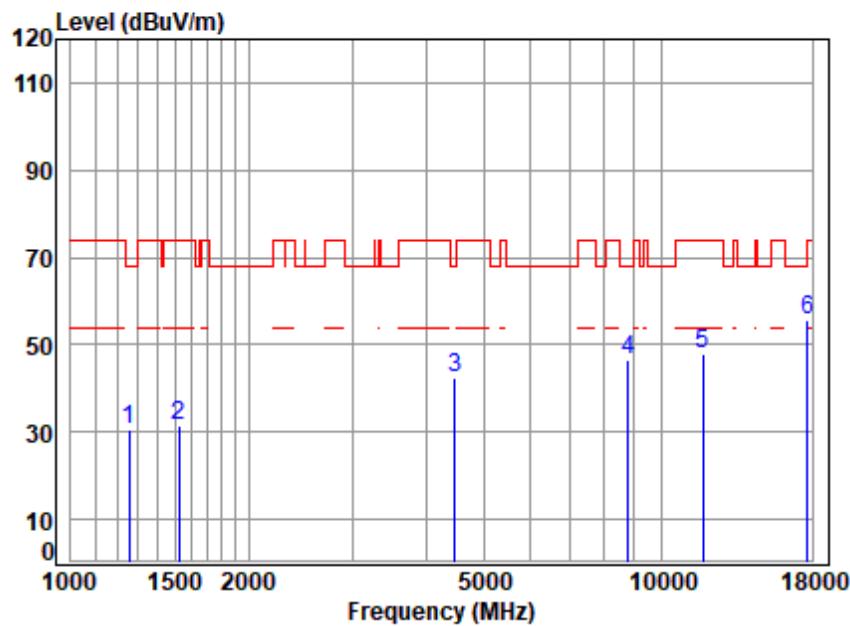
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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 04576AT/04577AT  
Mode : 5885 TX RSE  
Note : 5G WIFI 11N20

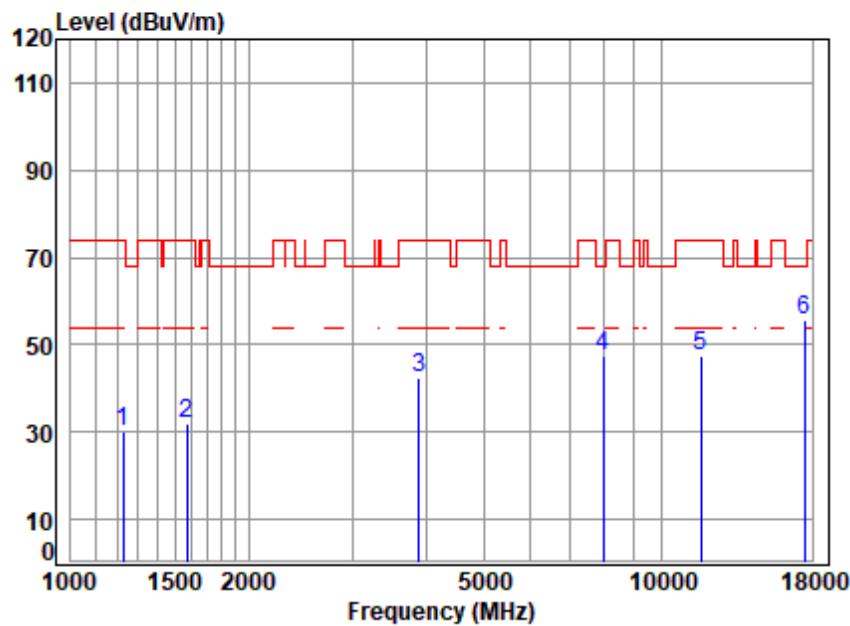
|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1256.512   | 3.76  | 25.06  | 54.70  | 56.64 | 30.76  | 68.20  | -37.44 peak |
| 2 | 1525.000   | 4.08  | 26.90  | 54.78  | 55.06 | 31.26  | 74.00  | -42.74 peak |
| 3 | 4469.214   | 7.22  | 33.97  | 54.25  | 55.51 | 42.45  | 68.20  | -25.75 peak |
| 4 | 8789.516   | 9.76  | 37.06  | 53.50  | 53.18 | 46.50  | 68.20  | -21.70 peak |
| 5 | 11770.000  | 11.96 | 37.90  | 53.16  | 51.18 | 47.88  | 74.00  | -26.12 peak |
| 6 | p17655.000 | 15.07 | 43.71  | 52.57  | 49.59 | 55.80  | 68.20  | -12.40 peak |



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04576AT/04577AT  
Mode : 5835 TX RSE  
Note : 5G WIFI 11N40

|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1227.791   | 3.72  | 24.79  | 54.69  | 56.41 | 30.23  | 74.00  | -43.77 peak |
| 2 | 1574.265   | 4.15  | 26.90  | 54.80  | 55.57 | 31.82  | 74.00  | -42.18 peak |
| 3 | 3890.255   | 6.62  | 33.66  | 54.37  | 56.72 | 42.63  | 74.00  | -31.37 peak |
| 4 | 7989.893   | 9.02  | 36.40  | 53.10  | 54.95 | 47.27  | 68.20  | -20.93 peak |
| 5 | 11670.000  | 11.95 | 37.84  | 53.14  | 50.87 | 47.52  | 74.00  | -26.48 peak |
| 6 | p17505.000 | 14.90 | 43.41  | 52.64  | 50.07 | 55.74  | 68.20  | -12.46 peak |

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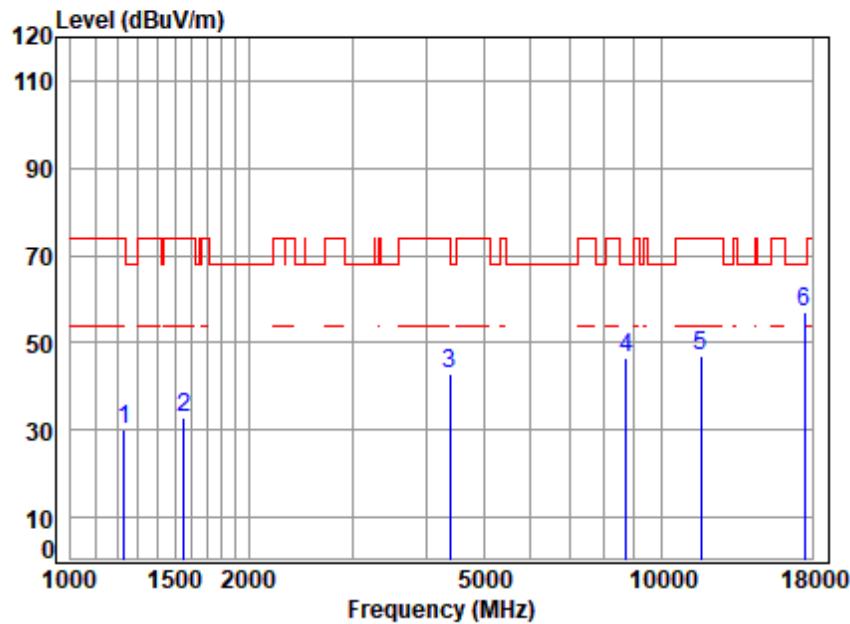
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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04576AT/04577AT  
 Mode : 5835 TX RSE  
 Note : 5G WIFI 11N40

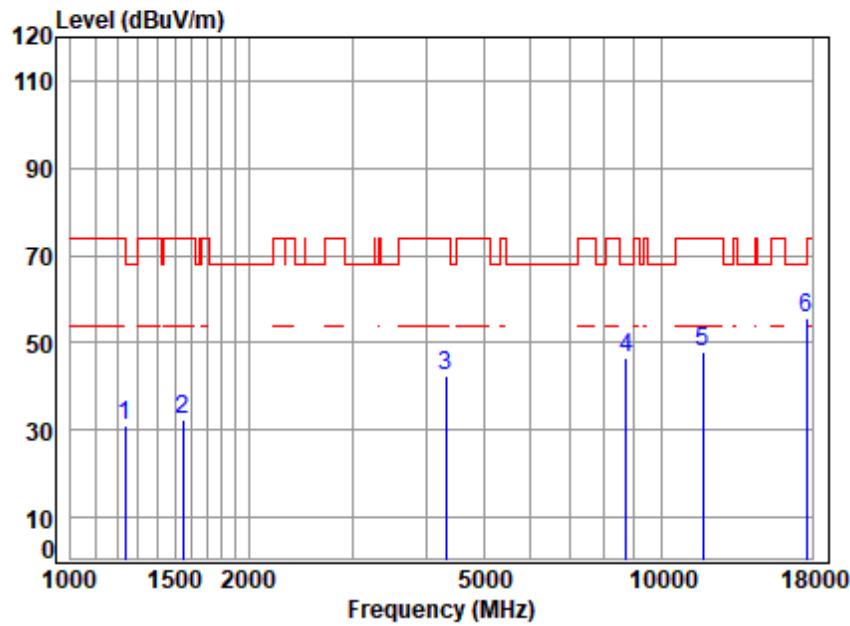
|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1231.345   | 3.72  | 24.84  | 54.69  | 56.35 | 30.22  | 74.00  | -43.78 peak |
| 2 | 1556.169   | 4.12  | 26.98  | 54.79  | 56.58 | 32.89  | 74.00  | -41.11 peak |
| 3 | 4392.376   | 7.13  | 34.74  | 54.26  | 55.15 | 42.76  | 74.00  | -31.24 peak |
| 4 | 8713.630   | 9.70  | 36.90  | 53.46  | 53.23 | 46.37  | 68.20  | -21.83 peak |
| 5 | 11670.000  | 11.95 | 37.84  | 53.14  | 50.40 | 47.05  | 74.00  | -26.95 peak |
| 6 | p17505.000 | 14.90 | 43.41  | 52.64  | 51.50 | 57.17  | 68.20  | -11.03 peak |

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04576AT/04577AT  
 Mode : 5875 TX RSE  
 Note : 5G WIFI 11N40

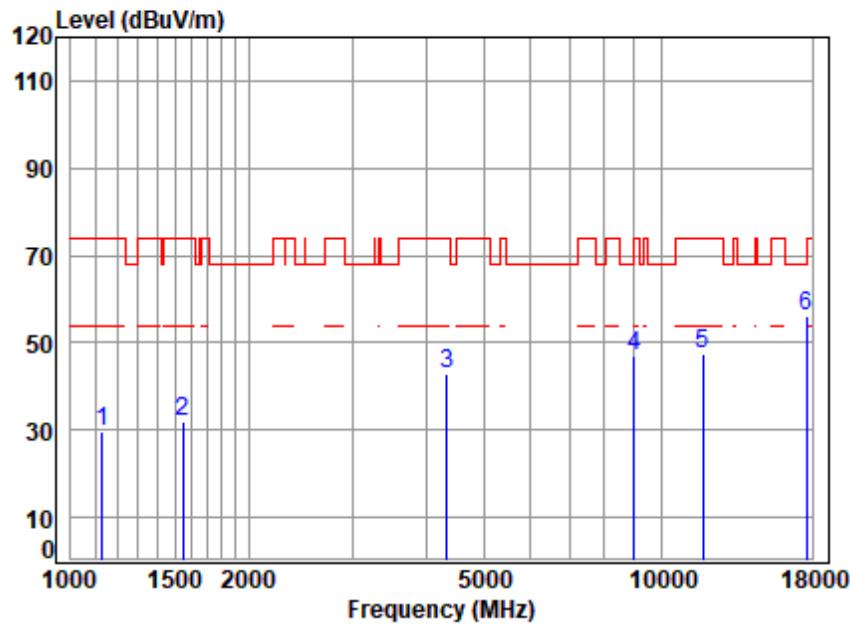
|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1238.483   | 3.73  | 24.94  | 54.69  | 56.94 | 30.92  | 74.00  | -43.08 peak |
| 2 | 1547.199   | 4.11  | 26.99  | 54.79  | 56.13 | 32.44  | 74.00  | -41.56 peak |
| 3 | 4316.859   | 7.04  | 34.13  | 54.27  | 55.42 | 42.32  | 74.00  | -31.68 peak |
| 4 | 8713.630   | 9.70  | 36.90  | 53.46  | 53.35 | 46.49  | 68.20  | -21.71 peak |
| 5 | 11750.000  | 11.96 | 37.90  | 53.15  | 50.98 | 47.69  | 74.00  | -26.31 peak |
| 6 | p17625.000 | 15.04 | 43.65  | 52.58  | 49.77 | 55.88  | 68.20  | -12.32 peak |

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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04576AT/04577AT  
 Mode : 5875 TX RSE  
 Note : 5G WIFI 11N40

|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1132.340   | 3.59  | 23.83  | 54.65  | 57.06 | 29.83  | 74.00  | -44.17 peak |
| 2 | 1547.199   | 4.11  | 26.99  | 54.79  | 55.57 | 31.88  | 74.00  | -42.12 peak |
| 3 | 4341.886   | 7.07  | 34.34  | 54.26  | 55.71 | 42.86  | 74.00  | -31.14 peak |
| 4 | 8995.123   | 9.92  | 36.91  | 53.60  | 53.55 | 46.78  | 68.20  | -21.42 peak |
| 5 | 11750.000  | 11.96 | 37.90  | 53.15  | 50.52 | 47.23  | 74.00  | -26.77 peak |
| 6 | p17625.000 | 15.04 | 43.65  | 52.58  | 50.14 | 56.25  | 68.20  | -11.95 peak |



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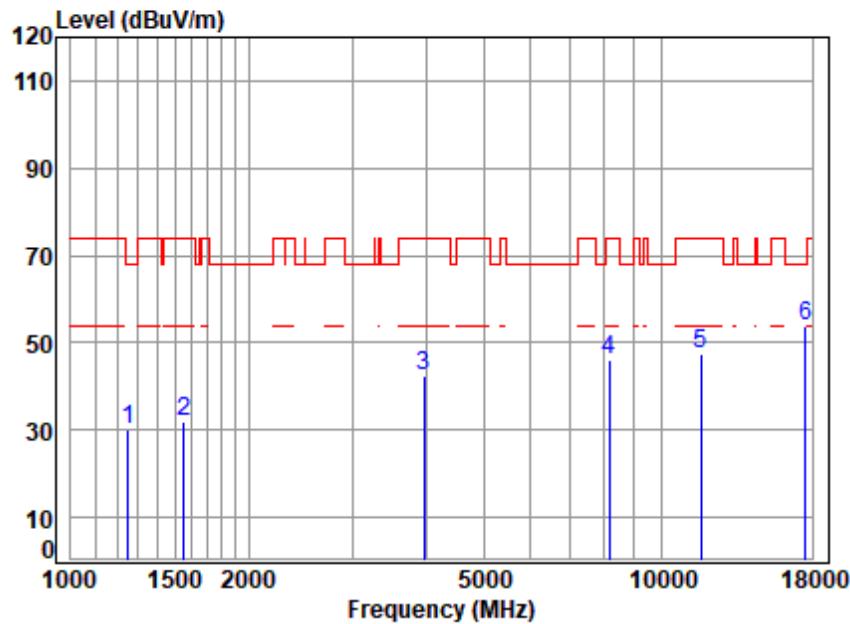
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04576AT/04577AT  
 Mode : 5845 TX RSE  
 Note : 5G WIFI 11AX20

|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1249.269   | 3.75  | 25.09  | 54.70  | 56.04 | 30.18  | 68.20  | -38.02 peak |
| 2 | 1551.677   | 4.12  | 26.99  | 54.79  | 55.56 | 31.88  | 74.00  | -42.12 peak |
| 3 | 3969.767   | 6.64  | 33.30  | 54.32  | 56.68 | 42.30  | 74.00  | -31.70 peak |
| 4 | 8153.195   | 9.19  | 36.51  | 53.18  | 53.65 | 46.17  | 74.00  | -27.83 peak |
| 5 | 11690.000  | 11.95 | 37.88  | 53.14  | 50.66 | 47.35  | 74.00  | -26.65 peak |
| 6 | p17535.000 | 14.93 | 43.47  | 52.63  | 48.27 | 54.04  | 68.20  | -14.16 peak |

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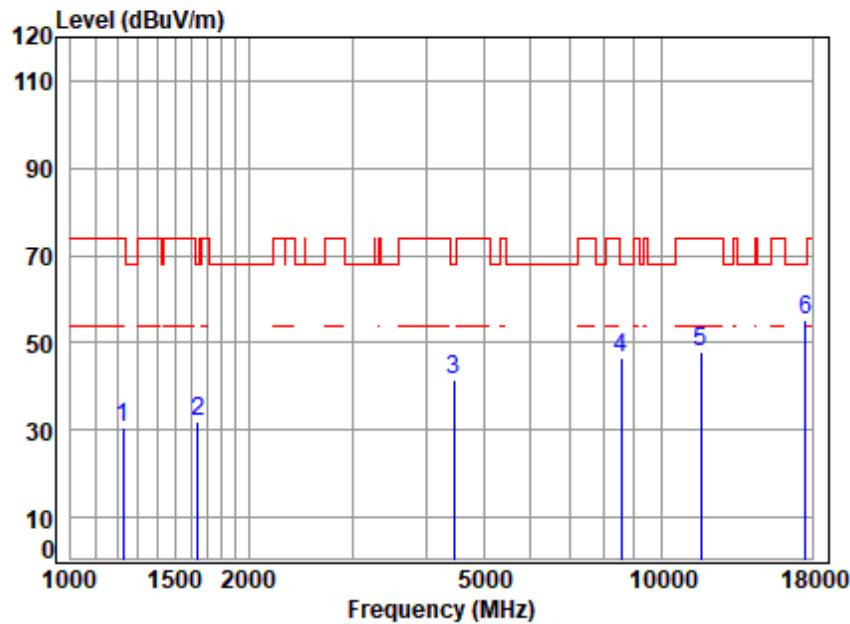
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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04576AT/04577AT  
 Mode : 5845 TX RSE  
 Note : 5G WIFI 11AX20

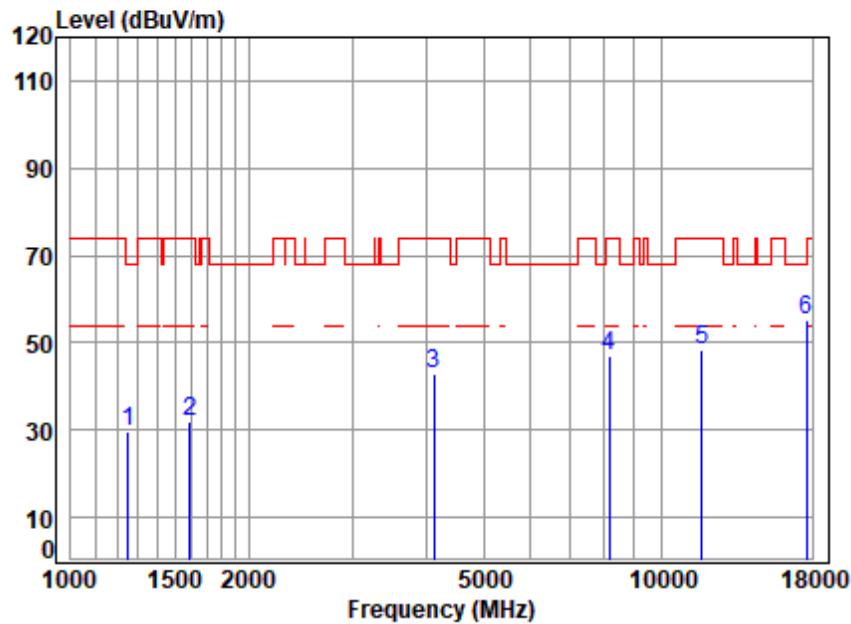
|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1227.791   | 3.72  | 24.79  | 54.69  | 56.55 | 30.37  | 74.00  | -43.63 peak |
| 2 | 1639.274   | 4.24  | 26.41  | 54.81  | 56.00 | 31.84  | 68.20  | -36.36 peak |
| 3 | 4456.315   | 7.20  | 34.12  | 54.25  | 54.41 | 41.48  | 68.20  | -26.72 peak |
| 4 | 8539.102   | 9.56  | 36.78  | 53.38  | 53.45 | 46.41  | 68.20  | -21.79 peak |
| 5 | 11690.000  | 11.95 | 37.88  | 53.14  | 51.44 | 48.13  | 74.00  | -25.87 peak |
| 6 | p17535.000 | 14.93 | 43.47  | 52.63  | 49.58 | 55.35  | 68.20  | -12.85 peak |

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04576AT/04577AT  
 Mode : 5865 TX RSE  
 Note : 5G WIFI 11AX20

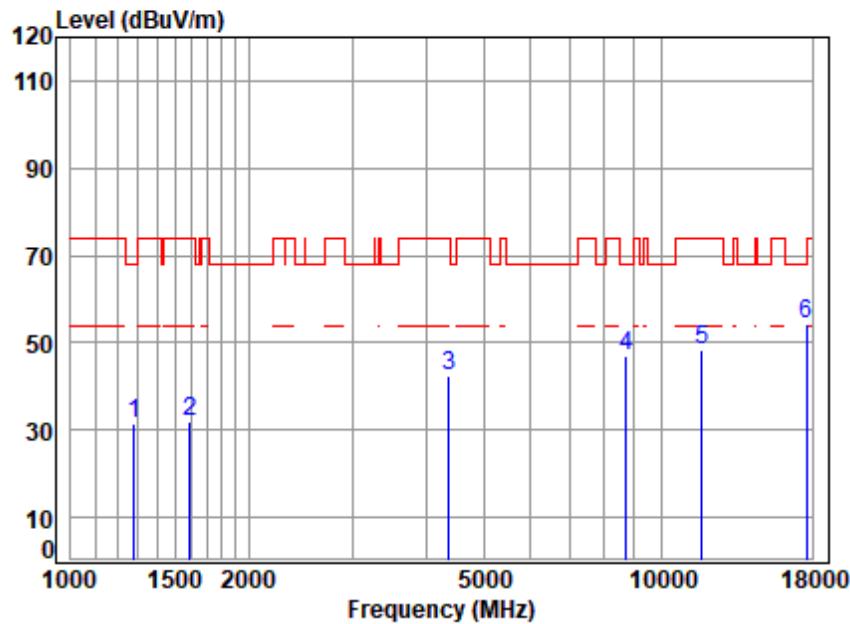
|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1252.885   | 3.75  | 25.08  | 54.70  | 55.73 | 29.86  | 68.20  | -38.34 peak |
| 2 | 1592.571   | 4.18  | 26.83  | 54.80  | 55.59 | 31.80  | 74.00  | -42.20 peak |
| 3 | 4121.768   | 6.80  | 33.35  | 54.29  | 57.25 | 43.11  | 74.00  | -30.89 peak |
| 4 | 8153.195   | 9.19  | 36.51  | 53.18  | 54.62 | 47.14  | 74.00  | -26.86 peak |
| 5 | 11730.000  | 11.95 | 37.90  | 53.15  | 51.47 | 48.17  | 74.00  | -25.83 peak |
| 6 | p17595.000 | 15.00 | 43.59  | 52.60  | 49.38 | 55.37  | 68.20  | -12.83 peak |

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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04576AT/04577AT  
 Mode : 5865 TX RSE  
 Note : 5G WIFI 11AX20

|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1282.193   | 3.79  | 24.91  | 54.71  | 57.46 | 31.45  | 68.20  | -36.75 peak |
| 2 | 1592.571   | 4.18  | 26.83  | 54.80  | 55.71 | 31.92  | 74.00  | -42.08 peak |
| 3 | 4367.058   | 7.10  | 34.54  | 54.26  | 54.99 | 42.37  | 74.00  | -31.63 peak |
| 4 | 8713.630   | 9.70  | 36.90  | 53.46  | 53.97 | 47.11  | 68.20  | -21.09 peak |
| 5 | 11730.000  | 11.95 | 37.90  | 53.15  | 51.61 | 48.31  | 74.00  | -25.69 peak |
| 6 | p17595.000 | 15.00 | 43.59  | 52.60  | 48.26 | 54.25  | 68.20  | -13.95 peak |

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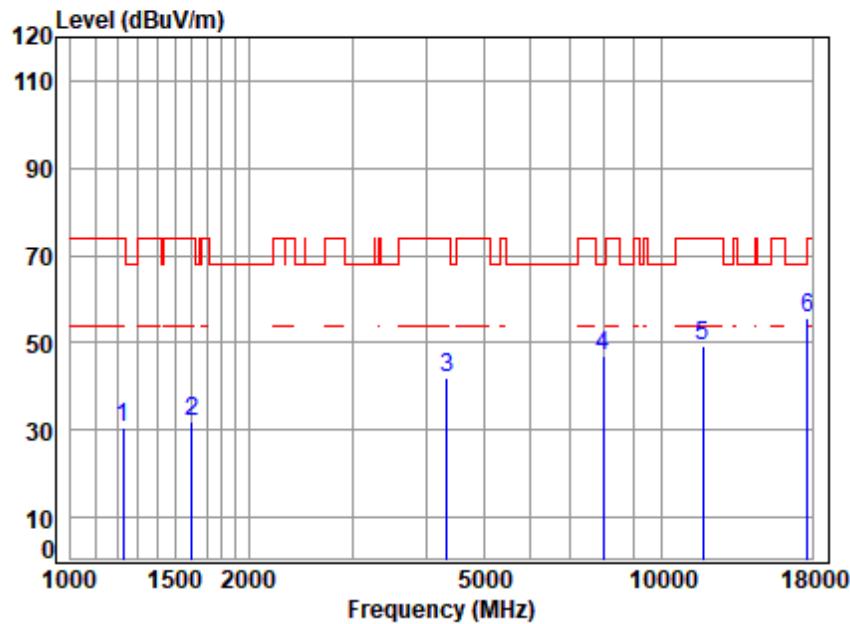
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04576AT/04577AT  
Mode : 5885 TX RSE  
Note : 5G WIFI 11AX20

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |      |
|------|------------|------------|---------------|------------|-------------|------------|------------|--------|------|
|      |            |            |               |            |             |            |            | MHz    | dB   |
| 1    | 1227.791   | 3.72       | 24.79         | 54.69      | 56.89       | 30.71      | 74.00      | -43.29 | peak |
| 2    | 1606.441   | 4.19       | 26.74         | 54.81      | 55.72       | 31.84      | 74.00      | -42.16 | peak |
| 3    | 4341.886   | 7.07       | 34.34         | 54.26      | 54.72       | 41.87      | 74.00      | -32.13 | peak |
| 4    | 7989.893   | 9.02       | 36.40         | 53.10      | 54.48       | 46.80      | 68.20      | -21.40 | peak |
| 5    | 11770.000  | 11.96      | 37.90         | 53.16      | 52.58       | 49.28      | 74.00      | -24.72 | peak |
| 6    | p17655.000 | 15.07      | 43.71         | 52.57      | 49.65       | 55.86      | 68.20      | -12.34 | peak |

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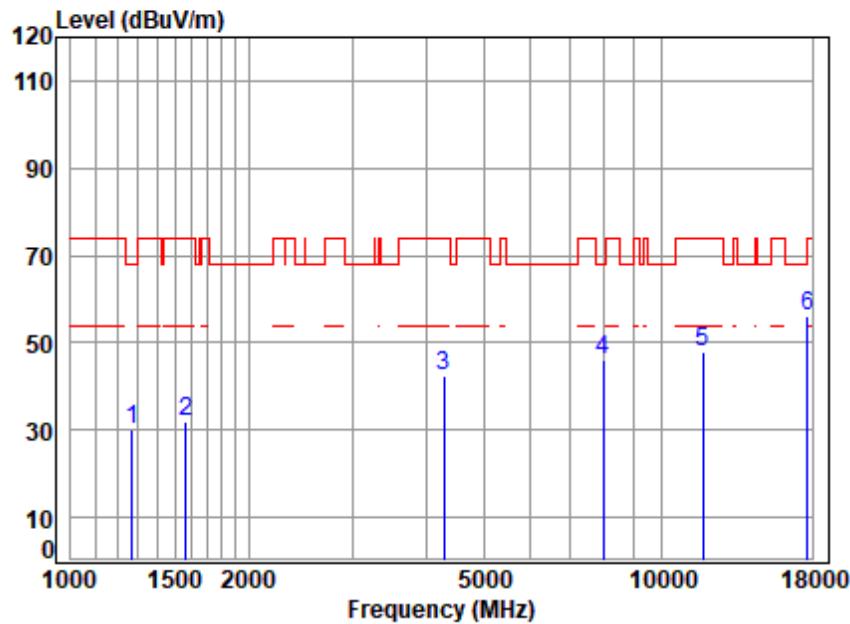
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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04576AT/04577AT  
 Mode : 5885 TX RSE  
 Note : 5G WIFI 11AX20

|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1271.123   | 3.77  | 24.97  | 54.70  | 56.21 | 30.25  | 68.20  | -37.95 peak |
| 2 | 1565.191   | 4.14  | 26.94  | 54.79  | 55.79 | 32.08  | 74.00  | -41.92 peak |
| 3 | 4291.977   | 7.01  | 33.97  | 54.27  | 55.60 | 42.31  | 74.00  | -31.69 peak |
| 4 | 7989.893   | 9.02  | 36.40  | 53.10  | 53.84 | 46.16  | 68.20  | -22.04 peak |
| 5 | 11770.000  | 11.96 | 37.90  | 53.16  | 51.29 | 47.99  | 74.00  | -26.01 peak |
| 6 | p17655.000 | 15.07 | 43.71  | 52.57  | 49.84 | 56.05  | 68.20  | -12.15 peak |



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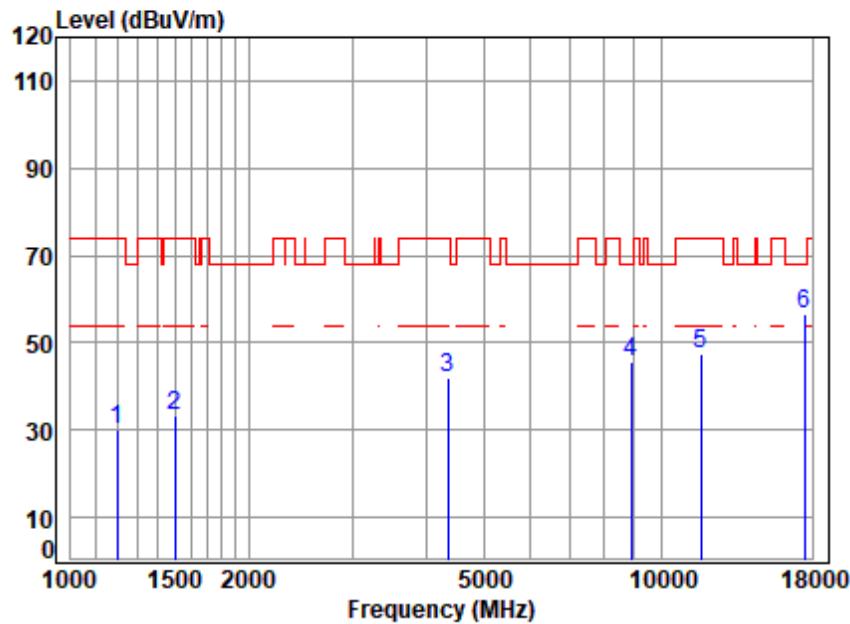
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04576AT/04577AT  
 Mode : 5835 TX RSE  
 Note : 5G WIFI 11AX40

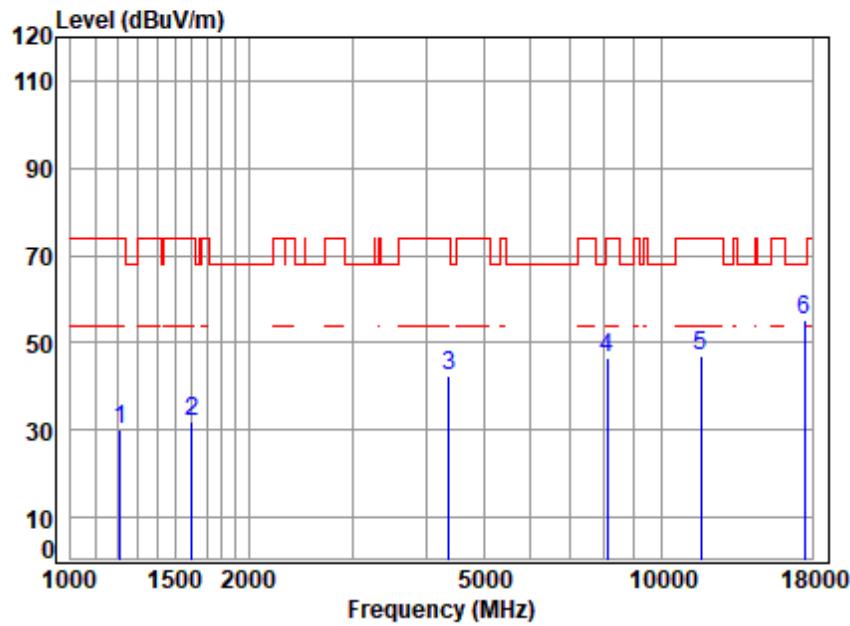
|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1196.264   | 3.68  | 24.36  | 54.68  | 56.90 | 30.26  | 74.00  | -43.74 peak |
| 2 | 1503.119   | 4.04  | 26.81  | 54.78  | 57.14 | 33.21  | 74.00  | -40.79 peak |
| 3 | 4354.454   | 7.08  | 34.44  | 54.26  | 54.83 | 42.09  | 74.00  | -31.91 peak |
| 4 | 8891.725   | 9.84  | 37.20  | 53.55  | 52.34 | 45.83  | 68.20  | -22.37 peak |
| 5 | 11670.000  | 11.95 | 37.84  | 53.14  | 50.68 | 47.33  | 74.00  | -26.67 peak |
| 6 | p17505.000 | 14.90 | 43.41  | 52.64  | 50.81 | 56.48  | 68.20  | -11.72 peak |

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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 04576AT/04577AT  
Mode : 5835 TX RSE  
Note : 5G WIFI 11AX40

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |      |
|------|------------|------------|---------------|------------|-------------|------------|------------|--------|------|
|      |            |            |               |            |             |            |            | MHz    | dB   |
| 1    | 1213.677   | 3.70       | 24.59         | 54.68      | 56.50       | 30.11      | 74.00      | -43.89 | peak |
| 2    | 1601.804   | 4.19       | 26.78         | 54.80      | 55.99       | 32.16      | 74.00      | -41.84 | peak |
| 3    | 4367.058   | 7.10       | 34.54         | 54.26      | 55.23       | 42.61      | 74.00      | -31.39 | peak |
| 4    | 8106.200   | 9.14       | 36.50         | 53.16      | 54.27       | 46.75      | 74.00      | -27.25 | peak |
| 5    | 11670.000  | 11.95      | 37.84         | 53.14      | 50.34       | 46.99      | 74.00      | -27.01 | peak |
| 6    | p17505.000 | 14.90      | 43.41         | 52.64      | 49.41       | 55.08      | 68.20      | -13.12 | peak |

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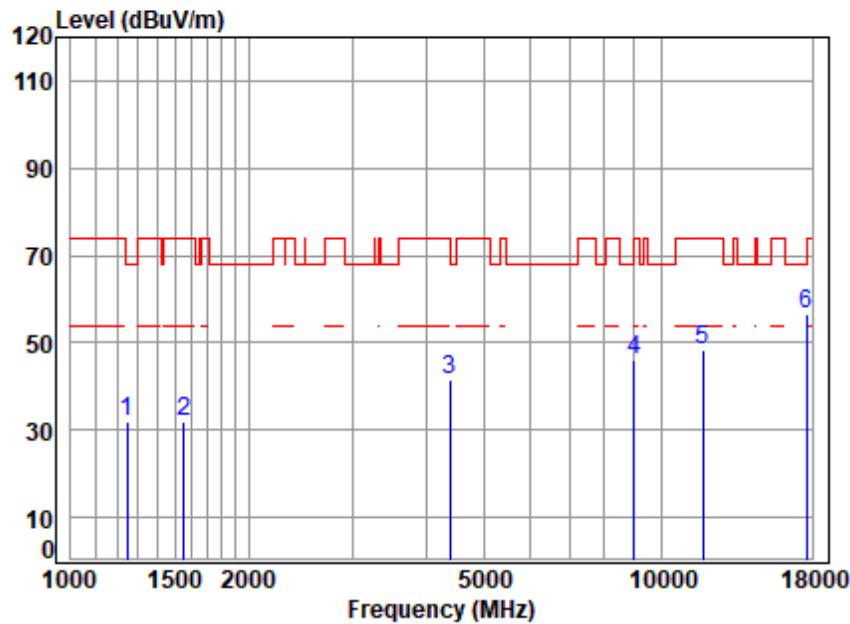
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04576AT/04577AT  
 Mode : 5875 TX RSE  
 Note : 5G WIFI 11AX40

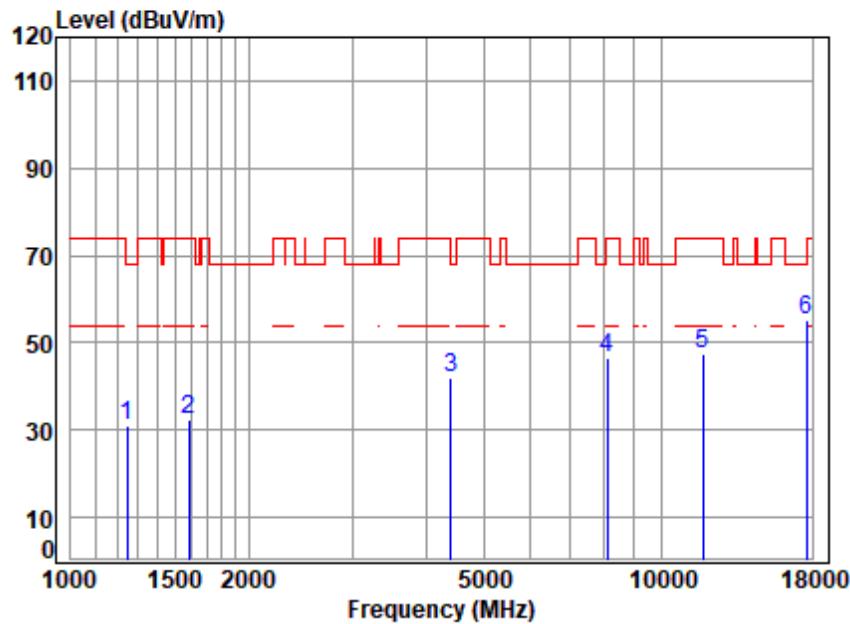
|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1245.663   | 3.74  | 25.04  | 54.70  | 57.85 | 31.93  | 68.20  | -36.27 peak |
| 2 | 1556.169   | 4.12  | 26.98  | 54.79  | 55.54 | 31.85  | 74.00  | -42.15 peak |
| 3 | 4379.699   | 7.11  | 34.64  | 54.26  | 53.85 | 41.34  | 74.00  | -32.66 peak |
| 4 | 8995.123   | 9.92  | 36.91  | 53.60  | 52.70 | 45.93  | 68.20  | -22.27 peak |
| 5 | 11750.000  | 11.96 | 37.90  | 53.15  | 51.53 | 48.24  | 74.00  | -25.76 peak |
| 6 | p17625.000 | 15.04 | 43.65  | 52.58  | 50.35 | 56.46  | 68.20  | -11.74 peak |

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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04576AT/04577AT  
 Mode : 5875 TX RSE  
 Note : 5G WIFI 11AX40

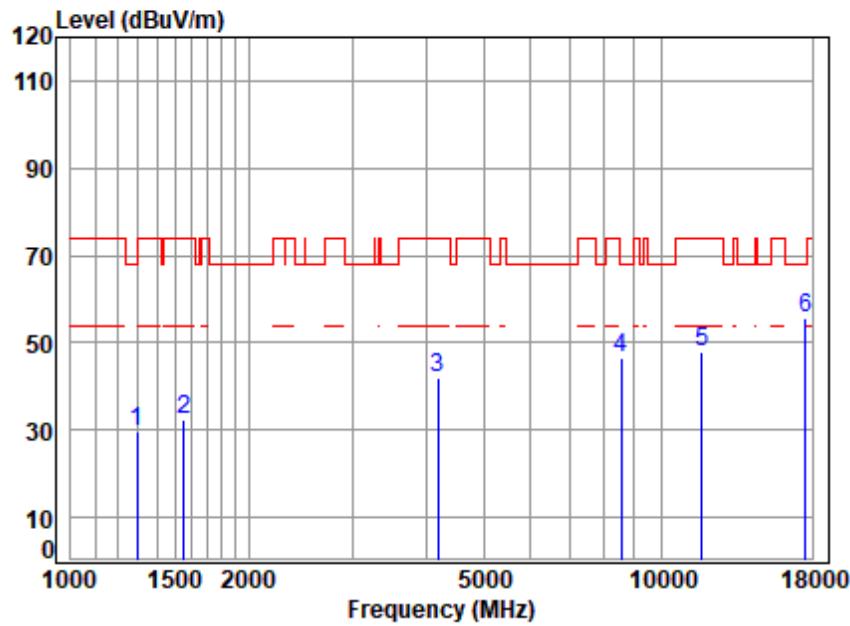
|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1245.663   | 3.74  | 25.04  | 54.70  | 56.72 | 30.80  | 68.20  | -37.40 peak |
| 2 | 1587.975   | 4.17  | 26.85  | 54.80  | 56.19 | 32.41  | 74.00  | -41.59 peak |
| 3 | 4405.090   | 7.14  | 34.74  | 54.26  | 54.35 | 41.97  | 68.20  | -26.23 peak |
| 4 | 8106.200   | 9.14  | 36.50  | 53.16  | 54.10 | 46.58  | 74.00  | -27.42 peak |
| 5 | 11750.000  | 11.96 | 37.90  | 53.15  | 50.72 | 47.43  | 74.00  | -26.57 peak |
| 6 | p17625.000 | 15.04 | 43.65  | 52.58  | 49.01 | 55.12  | 68.20  | -13.08 peak |

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 04576AT/04577AT  
 Mode : 5855 TX RSE  
 Note : 5G WIFI 11AX80

|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1297.103   | 3.81  | 24.82  | 54.71  | 55.86 | 29.78  | 68.20  | -38.42 peak |
| 2 | 1556.169   | 4.12  | 26.98  | 54.79  | 56.00 | 32.31  | 74.00  | -41.69 peak |
| 3 | 4181.768   | 6.88  | 33.80  | 54.28  | 55.39 | 41.79  | 74.00  | -32.21 peak |
| 4 | 8539.102   | 9.56  | 36.78  | 53.38  | 53.36 | 46.32  | 68.20  | -21.88 peak |
| 5 | 11710.000  | 11.95 | 37.90  | 53.14  | 51.17 | 47.88  | 74.00  | -26.12 peak |
| 6 | p17565.000 | 14.97 | 43.53  | 52.61  | 49.58 | 55.47  | 68.20  | -12.73 peak |

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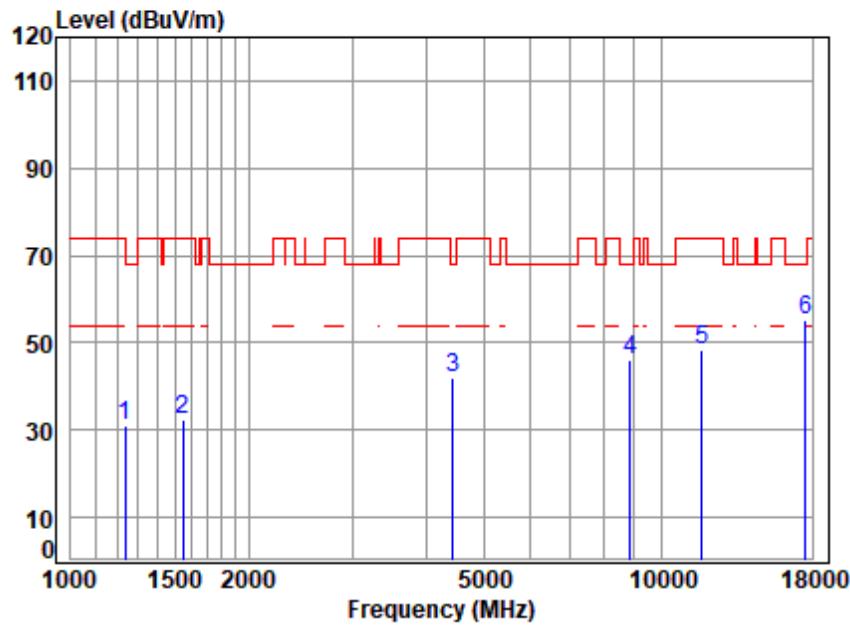
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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 04576AT/04577AT  
 Mode : 5855 TX RSE  
 Note : 5G WIFI 11AX80

|   | Freq       | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|---|------------|-------|--------|--------|-------|--------|--------|-------------|
|   |            | Loss  | Factor | Factor | Level | Level  | Line   |             |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 1238.483   | 3.73  | 24.94  | 54.69  | 57.17 | 31.15  | 74.00  | -42.85 peak |
| 2 | 1547.199   | 4.11  | 26.99  | 54.79  | 55.98 | 32.29  | 74.00  | -41.71 peak |
| 3 | 4430.628   | 7.17  | 34.43  | 54.25  | 54.54 | 41.89  | 68.20  | -26.31 peak |
| 4 | 8866.062   | 9.82  | 37.20  | 53.54  | 52.49 | 45.97  | 68.20  | -22.23 peak |
| 5 | 11710.000  | 11.95 | 37.90  | 53.14  | 51.46 | 48.17  | 74.00  | -25.83 peak |
| 6 | p17565.000 | 14.97 | 43.53  | 52.61  | 49.32 | 55.21  | 68.20  | -12.99 peak |

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## 7.5 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: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

- (i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/ MHz at or above 5.925 GHz.
- (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz.

### 7.5.1 E.U.T. Operation

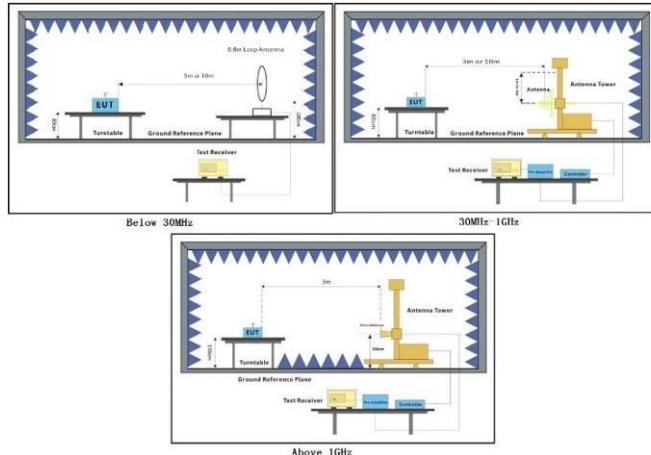
Operating Environment:

Temperature: 23.5 °C      Humidity: 56.3 % RH      Atmospheric Pressure: 1020 mbar

### 7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description   |
|-----------------------|-----------|---|
| Final test            | 08        | TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |

### 7.5.3 Test Setup Diagram



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**7.5.4 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 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 3. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.



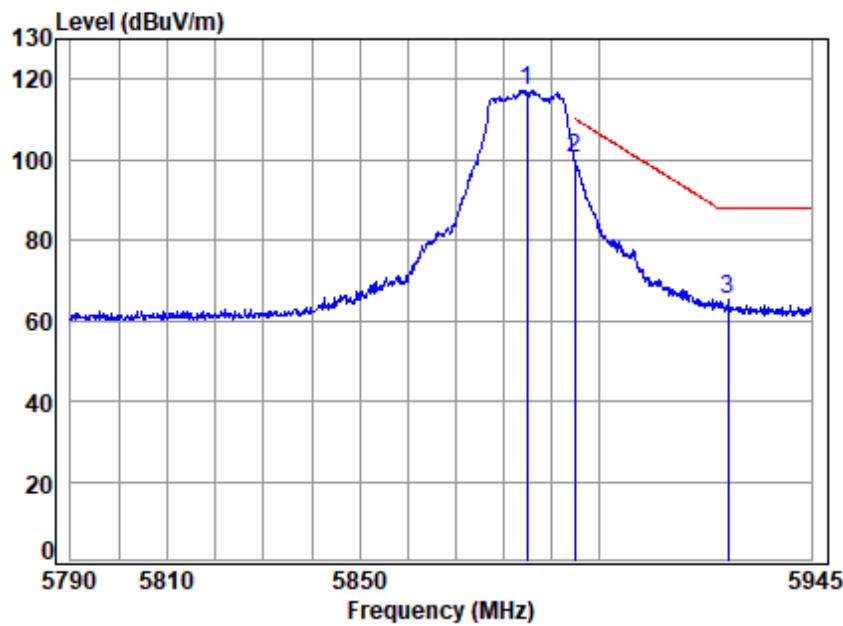
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04576AT/04577AT

Mode : 5885 Band edge

: 5G WIFI 11A

|     | Cable<br>Freq | Loss<br>dB | Ant<br>Factor | Preamp<br>Factor | Read<br>Level<br>dB | Limit<br>Level<br>dBuV | Line<br>Level<br>dBuV/m | Over<br>Line<br>Level<br>dBuV/m | Over<br>Limit<br>dB | Over<br>Remark |
|-----|---------------|------------|---------------|------------------|---------------------|------------------------|-------------------------|---------------------------------|---------------------|----------------|
| 1   | 5885.000      | 19.56      | 34.54         | 31.65            | 94.68               | 117.13                 | -----                   | -----                           | -----               | peak           |
| 2 p | 5895.000      | 19.57      | 34.58         | 31.65            | 77.88               | 100.38                 | 110.20                  | -9.82                           | peak                |                |
| 3   | 5927.436      | 19.59      | 34.65         | 31.67            | 42.52               | 65.09                  | 88.20                   | -23.11                          | peak                |                |

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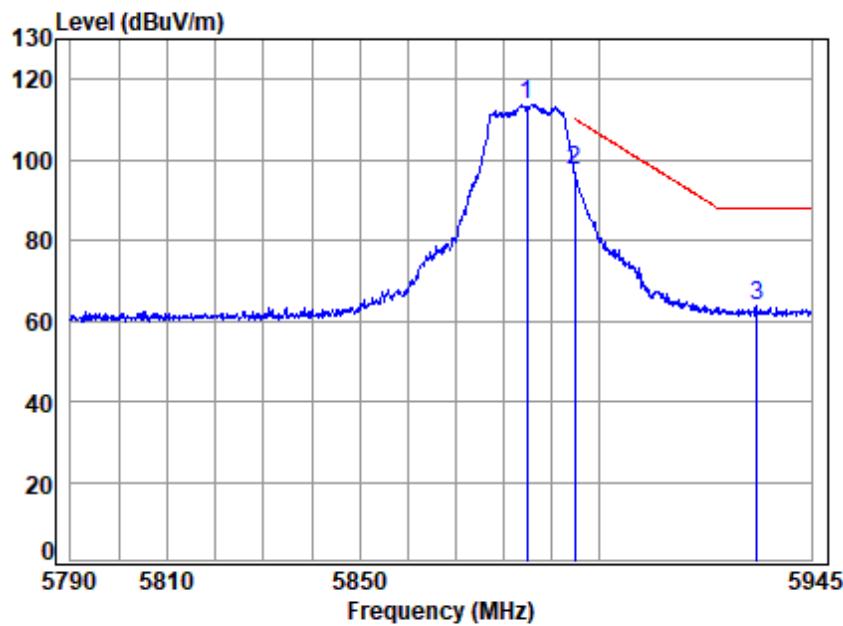
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Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 04576AT/04577AT  
Mode : 5885 Band edge  
: 5G WIFI 11A

| Freq         | Cable | Ant    | Preamp | Read  | Limit  | Over   | Remark      |
|--------------|-------|--------|--------|-------|--------|--------|-------------|
|              | Loss  | Factor | Factor | Level |        |        |             |
| MHz          | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 5885.000   | 19.56 | 34.54  | 31.65  | 91.25 | 113.70 | -----  | ----- peak  |
| 2 p 5895.000 | 19.57 | 34.58  | 31.65  | 74.85 | 97.35  | 110.20 | -12.85 peak |
| 3 5933.389   | 19.59 | 34.67  | 31.67  | 40.95 | 63.54  | 88.20  | -24.66 peak |

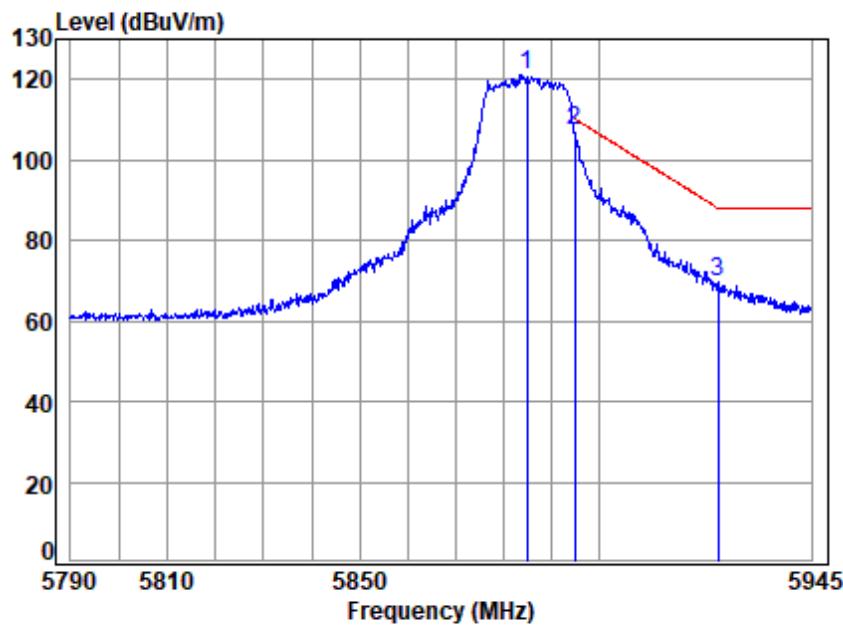
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04576AT/04577AT  
Mode : 5885 Band edge  
: 5G WIFI 11N20

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |      |
|------|------------|------------|---------------|------------|-------------|------------|------------|--------|------|
|      |            |            |               |            |             |            |            | MHz    | dB   |
| 1    | 5885.000   | 19.56      | 34.54         | 31.65      | 98.55       | 121.00     | -----      | -----  | peak |
| 2    | p 5895.000 | 19.57      | 34.58         | 31.65      | 84.88       | 107.38     | 110.20     | -2.82  | peak |
| 3    | 5925.244   | 19.58      | 34.65         | 31.67      | 46.89       | 69.45      | 88.20      | -18.75 | peak |

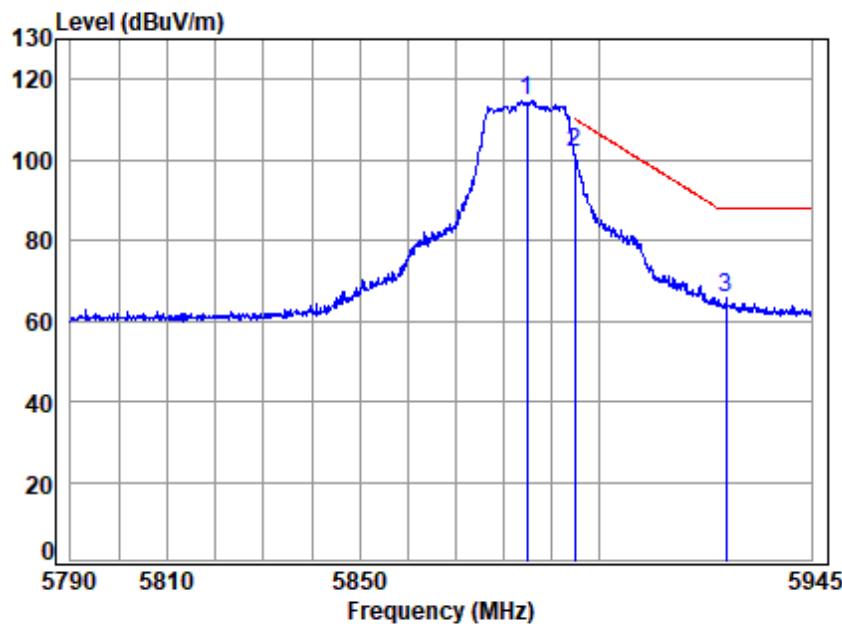
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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 04576AT/04577AT  
Mode : 5885 Band edge  
: 5G WIFI 11N20

| Freq         | Cable | Ant    | Preamp | Read  | Limit  | Over   | Over   |        |
|--------------|-------|--------|--------|-------|--------|--------|--------|--------|
|              | Loss  | Factor | Factor | Level |        |        |        | Remark |
| MHz          | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1 5885.000   | 19.56 | 34.54  | 31.65  | 92.31 | 114.76 | -----  | -----  | peak   |
| 2 p 5895.000 | 19.57 | 34.58  | 31.65  | 79.09 | 101.59 | 110.20 | -8.61  | peak   |
| 3 5926.966   | 19.58 | 34.65  | 31.67  | 43.05 | 65.61  | 88.20  | -22.59 | peak   |

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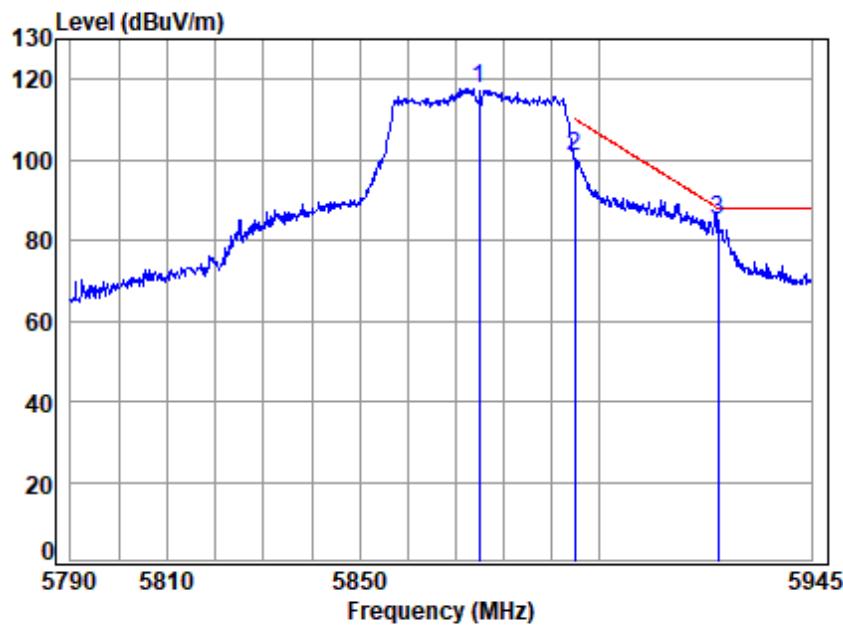
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04576AT/04577AT  
Mode : 5875 Band edge  
: 5G WIFI 11N40

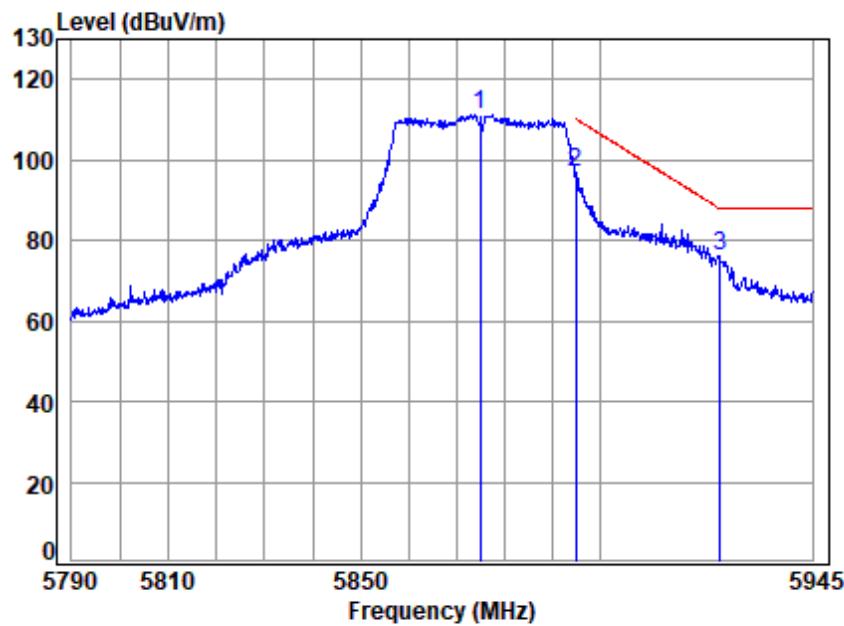
| Freq         | Cable Loss | Ant Factor | Preamp Factor | Read  | Limit Level | Line Level | Over Limit | Over Remark |
|--------------|------------|------------|---------------|-------|-------------|------------|------------|-------------|
|              |            |            |               | dB    | dB/m        | dB         | dBuV       | dBuV/m      |
| 1 5875.000   | 19.55      | 34.50      | 31.64         | 95.32 | 117.73      | -----      | -----      | peak        |
| 2 5895.000   | 19.57      | 34.58      | 31.65         | 78.41 | 100.91      | 110.20     | -9.29      | peak        |
| 3 p 5925.244 | 19.58      | 34.65      | 31.67         | 62.52 | 85.08       | 88.20      | -3.12      | peak        |

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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 04576AT/04577AT  
Mode : 5875 Band edge  
: 5G WIFI 11N40

| Freq         | Cable Loss | Ant Factor | Preamp Factor | Read  | Limit Level | Line Level | Over Limit | Over Remark |
|--------------|------------|------------|---------------|-------|-------------|------------|------------|-------------|
|              |            |            |               | dB    | dB/m        | dB         | dBuV       | dBuV/m      |
| 1 5875.000   | 19.55      | 34.50      | 31.64         | 88.82 | 111.23      | -----      | -----      | peak        |
| 2 5895.000   | 19.57      | 34.58      | 31.65         | 74.27 | 96.77       | 110.20     | -13.43     | peak        |
| 3 p 5925.400 | 19.58      | 34.65      | 31.67         | 53.61 | 76.17       | 88.20      | -12.03     | peak        |

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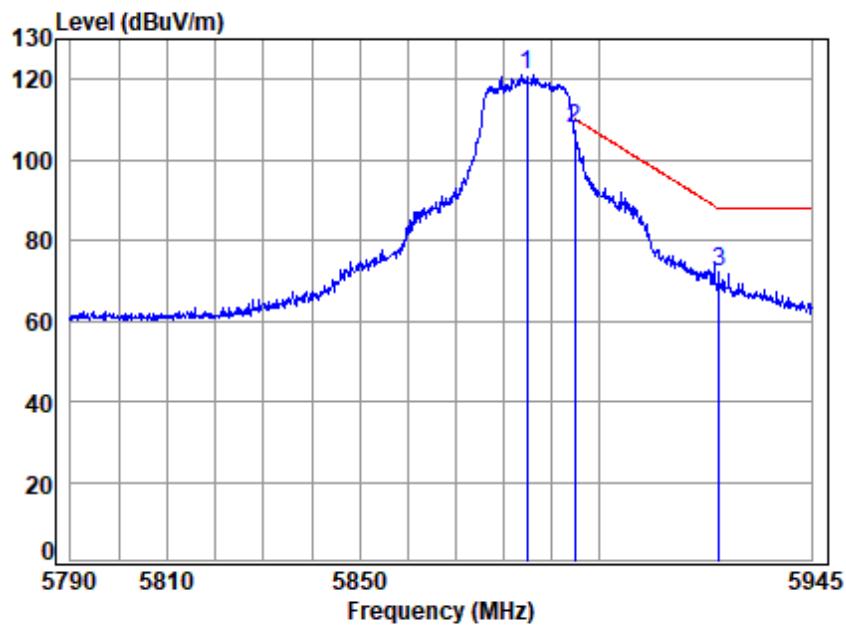
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04576AT/04577AT  
Mode : 5885 Band edge  
: 5G WIFI 11AC20

| Freq         | Cable Loss | Ant Factor | Preamp Factor | Read Level |        | Limit Line | Over Line | Over Limit | Remark |
|--------------|------------|------------|---------------|------------|--------|------------|-----------|------------|--------|
|              |            |            |               | dB         | dB/m   | dB         | dBuV      | dBuV/m     | dB     |
| 1 5885.000   | 19.56      | 34.54      | 31.65         | 98.76      | 121.21 | -----      | -----     | -----      | peak   |
| 2 p 5895.000 | 19.57      | 34.58      | 31.65         | 85.42      | 107.92 | 110.20     | -2.28     | peak       |        |
| 3 5925.400   | 19.58      | 34.65      | 31.67         | 49.44      | 72.00  | 88.20      | -16.20    | peak       |        |

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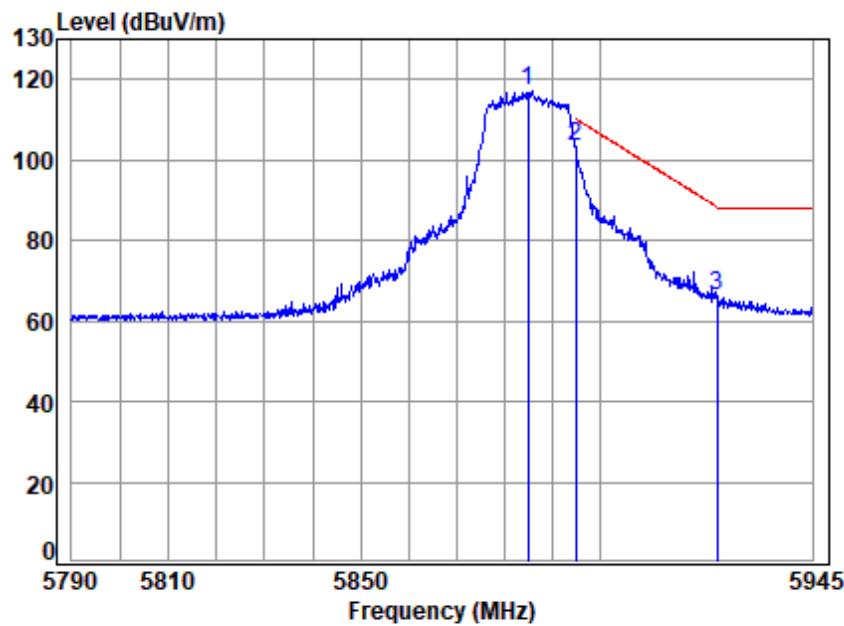
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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 04576AT/04577AT  
Mode : 5885 Band edge  
: 5G WIFI 11AC20

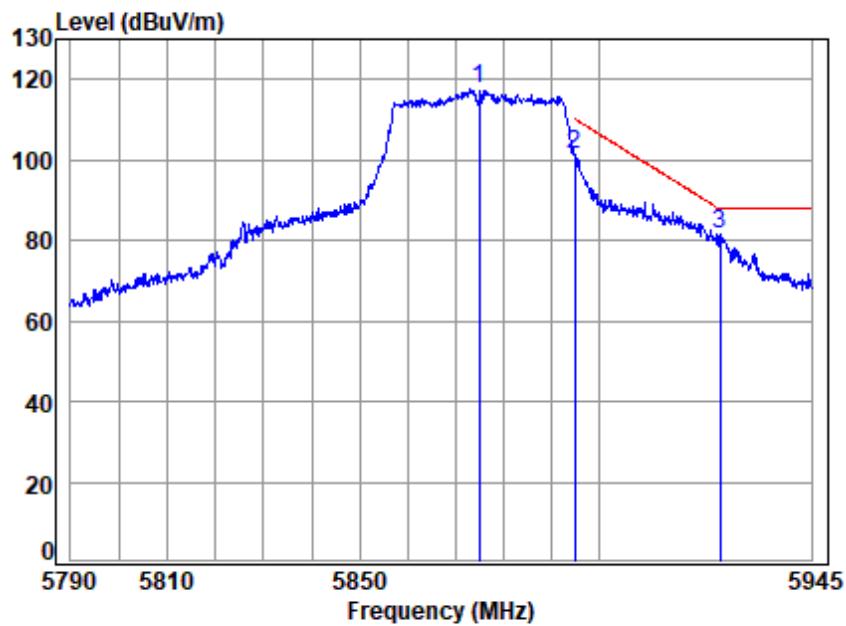
| Freq         | Cable | Ant    | Preamp | Read  | Limit  | Over   | Over   | Remark |
|--------------|-------|--------|--------|-------|--------|--------|--------|--------|
|              | Loss  | Factor | Factor | Level |        |        |        |        |
| MHz          | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1 5885.000   | 19.56 | 34.54  | 31.65  | 94.55 | 117.00 | -----  | -----  | peak   |
| 2 p 5895.000 | 19.57 | 34.58  | 31.65  | 80.71 | 103.21 | 110.20 | -6.99  | peak   |
| 3 5924.931   | 19.58 | 34.65  | 31.67  | 43.60 | 66.16  | 88.25  | -22.09 | peak   |

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04576AT/04577AT  
Mode : 5875 Band edge  
: 5G WIFI 11AC40

|     | Cable<br>Freq | Ant<br>Loss | Preamp<br>Factor | Read<br>Level | Limit<br>Level | Limit<br>Line | Over<br>Line | Over<br>Limit | Remark |
|-----|---------------|-------------|------------------|---------------|----------------|---------------|--------------|---------------|--------|
|     | MHz           | dB          | dB/m             | dB            | dBuV           | dBuV/m        | dBuV/m       | dB            |        |
| 1   | 5875.000      | 19.55       | 34.50            | 31.64         | 95.19          | 117.60        | -----        | -----         | peak   |
| 2   | 5895.000      | 19.57       | 34.58            | 31.65         | 78.92          | 101.42        | 110.20       | -8.78         | peak   |
| 3 p | 5925.713      | 19.58       | 34.65            | 31.67         | 59.11          | 81.67         | 88.20        | -6.53         | peak   |

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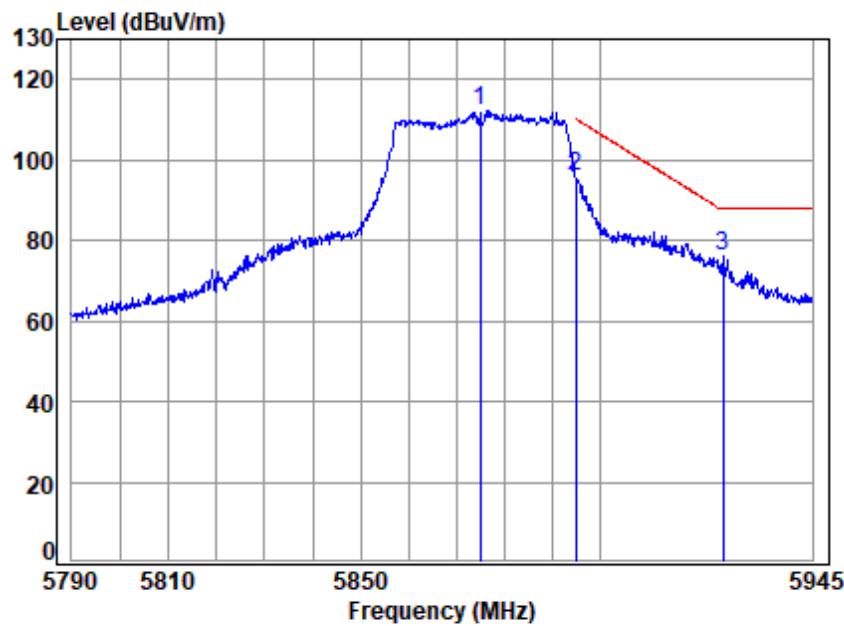
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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 04576AT/04577AT  
Mode : 5875 Band edge  
: 5G WIFI 11AC40

| Freq         | Cable Loss | Ant Factor | Preamp Factor | Read  | Limit Level | Line Limit | Over Limit | Remark |
|--------------|------------|------------|---------------|-------|-------------|------------|------------|--------|
|              |            |            |               | Level |             |            |            |        |
| MHz          | dB         | dB/m       |               | dBuV  | dBuV/m      | dBuV/m     | dB         |        |
| 1 5875.000   | 19.55      | 34.50      | 31.64         | 89.81 | 112.22      | -----      | -----      | peak   |
| 2 5895.000   | 19.57      | 34.58      | 31.65         | 73.36 | 95.86       | 110.20     | -14.34     | peak   |
| 3 p 5926.026 | 19.58      | 34.65      | 31.67         | 53.44 | 76.00       | 88.20      | -12.20     | peak   |

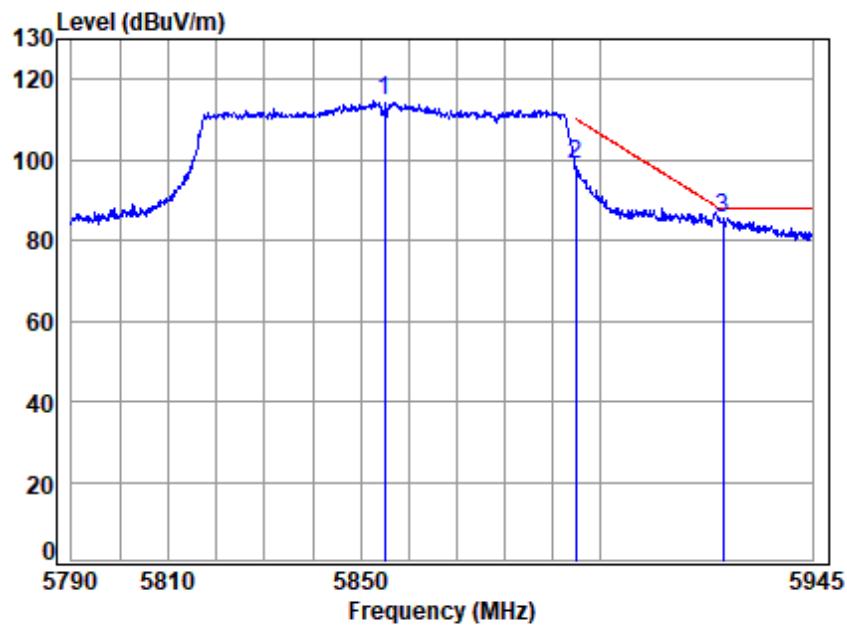
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04576AT/04577AT  
Mode : 5855 Band edge  
: 5G WIFI 11AC80

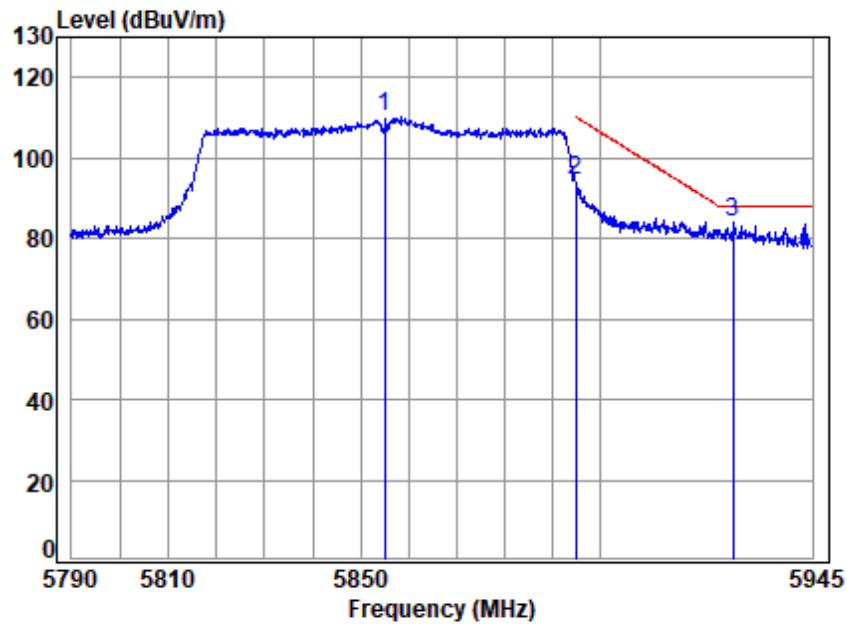
| Freq         | Cable Loss | Ant Factor | Preamp Factor | Read  | Limit Line | Over Limit | Remark |      |
|--------------|------------|------------|---------------|-------|------------|------------|--------|------|
|              |            |            |               | Level |            |            |        |      |
| MHz          | dB         | dB/m       |               | dB    | dBuV       | dBuV/m     | dBuV/m | dB   |
| 1 5855.000   | 19.54      | 34.42      | 31.63         | 92.32 | 114.65     | -----      | -----  | peak |
| 2 5895.000   | 19.57      | 34.58      | 31.65         | 76.33 | 98.83      | 110.20     | -11.37 | peak |
| 3 p 5926.183 | 19.58      | 34.65      | 31.67         | 63.19 | 85.75      | 88.20      | -2.45  | peak |

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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 04576AT/04577AT  
Mode : 5855 Band edge  
: 5G WIFI 11AC80

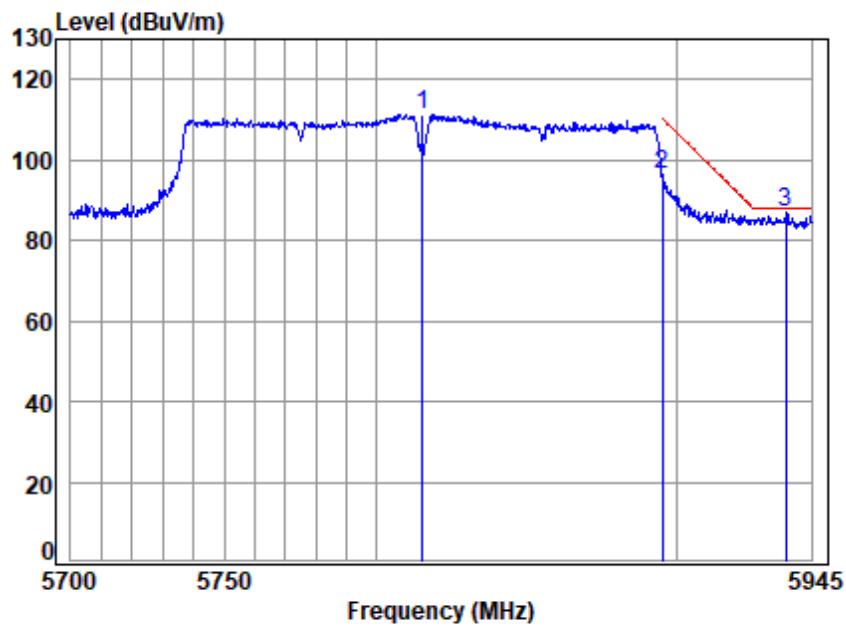
| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level |       | Limit Line | Over Line | Remark      |
|------|------------|------------|---------------|------------|-------|------------|-----------|-------------|
|      |            |            |               | dB         | dB/m  |            |           |             |
| MHz  |            |            |               |            |       |            |           |             |
| 1    | 5855.000   | 19.54      | 34.42         | 31.63      | 87.74 | 110.07     | -----     | ----- peak  |
| 2    | 5895.000   | 19.57      | 34.58         | 31.65      | 71.76 | 94.26      | 110.20    | -15.94 peak |
| 3 p  | 5928.219   | 19.59      | 34.66         | 31.67      | 61.48 | 84.06      | 88.20     | -4.14 peak  |

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04576AT/04577AT  
Mode : 5815 Band edge  
: 5G WIFI 11AC160

|     | Cable<br>Freq | Ant<br>Loss | Preamp<br>Factor | Read<br>Level | Limit<br>Level | Line<br>Level | Over<br>Line<br>Limit | Over<br>Line<br>Remark |
|-----|---------------|-------------|------------------|---------------|----------------|---------------|-----------------------|------------------------|
|     | MHz           | dB          | dB/m             | dB            | dBuV           | dBuV/m        | dBuV/m                | dB                     |
| 1   | 5815.000      | 19.51       | 34.33            | 31.61         | 89.13          | 111.36        | -----                 | ----- peak             |
| 2   | 5895.000      | 19.57       | 34.58            | 31.65         | 73.99          | 96.49         | 110.20                | -13.71 peak            |
| 3 p | 5936.250      | 19.59       | 34.67            | 31.67         | 64.23          | 86.82         | 88.20                 | -1.38 peak             |



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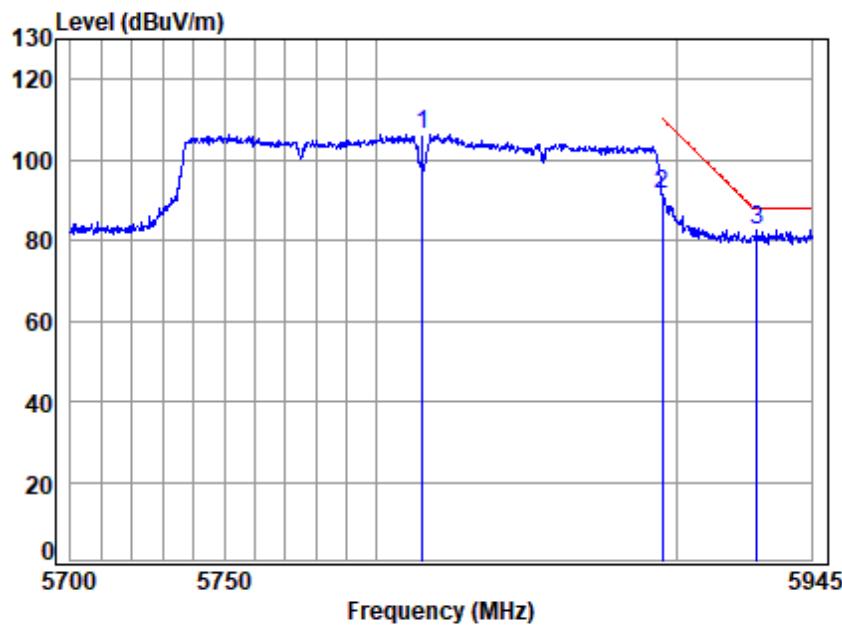
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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:High



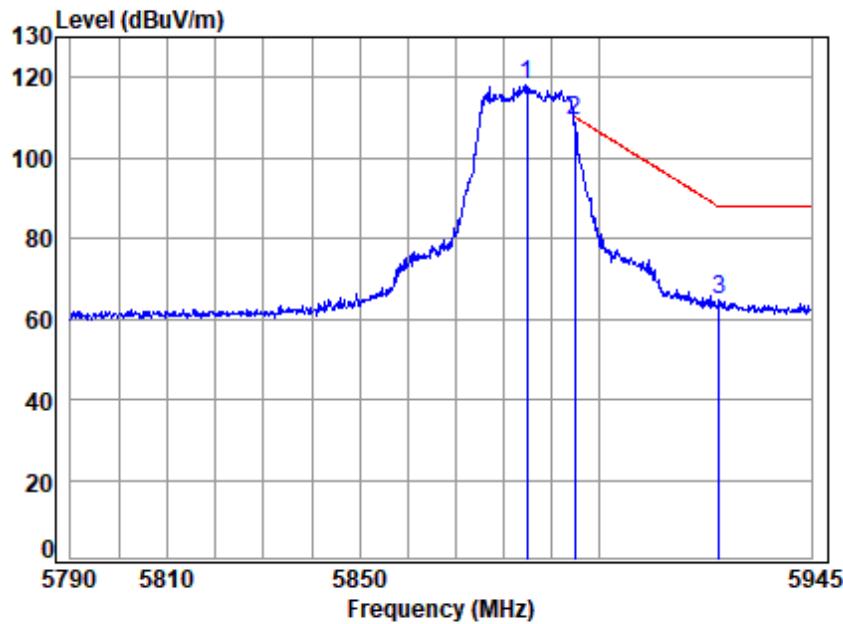
Site : chamber  
Condition: 3m VERTICAL  
Job No : 04576AT/04577AT  
Mode : 5815 Band edge  
: 5G WIFI 11AC160

|     | Cable<br>Freq | Ant<br>Loss | Preamp<br>Factor | Read<br>Level | Limit<br>Level | Limit<br>Line | Over<br>Limit | Remark      |
|-----|---------------|-------------|------------------|---------------|----------------|---------------|---------------|-------------|
|     | MHz           | dB          | dB/m             | dB            | dBuV           | dBuV/m        | dBuV/m        | dB          |
| 1   | 5815.000      | 19.51       | 34.33            | 31.61         | 84.21          | 106.44        | -----         | ----- peak  |
| 2   | 5895.000      | 19.57       | 34.58            | 31.65         | 68.70          | 91.20         | 110.20        | -19.00 peak |
| 3 p | 5926.764      | 19.58       | 34.65            | 31.67         | 60.00          | 82.56         | 88.20         | -5.64 peak  |

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04576AT/04577AT  
Mode : 5885 Band edge  
: 5G WIFI 11AX20

| Freq         | Cable Loss | Ant Factor | Preamp Factor | Read  | Limit Level | Line Limit | Over Limit | Remark |
|--------------|------------|------------|---------------|-------|-------------|------------|------------|--------|
|              |            |            |               | Level |             |            |            |        |
| MHz          | dB         | dB/m       | dB            | dB    | dBuV        | dBuV/m     | dB         |        |
| 1 5885.000   | 19.56      | 34.54      | 31.65         | 95.69 | 118.14      | -----      | -----      | peak   |
| 2 p 5895.000 | 19.57      | 34.58      | 31.65         | 86.65 | 109.15      | 110.20     | -1.05      | peak   |
| 3 5925.557   | 19.58      | 34.65      | 31.67         | 41.99 | 64.55       | 88.20      | -23.65     | peak   |



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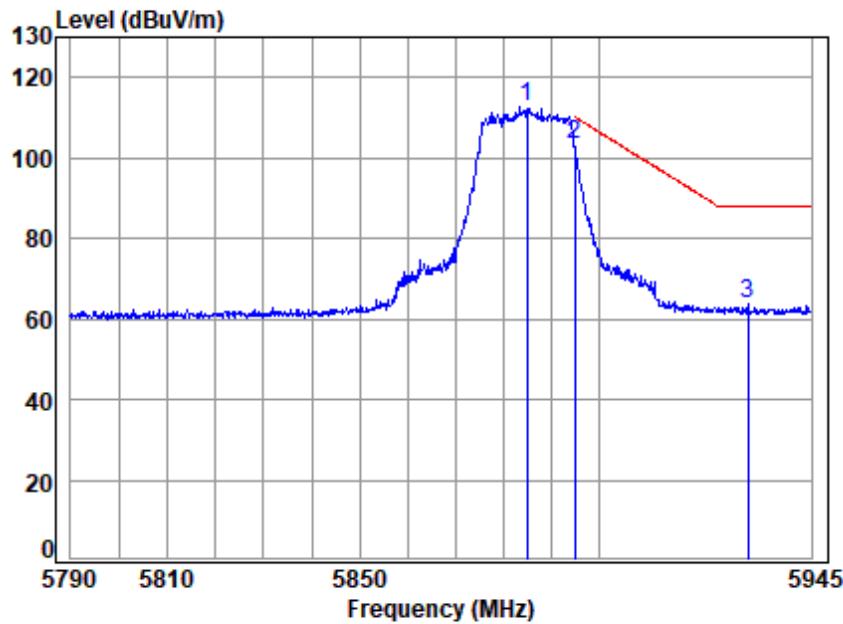
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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 04576AT/04577AT  
Mode : 5885 Band edge  
: 5G WIFI 11AX20

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |      |
|------|------------|------------|---------------|------------|-------------|------------|------------|--------|------|
|      |            |            |               |            |             |            |            | MHz    | dB   |
| 1    | 5885.000   | 19.56      | 34.54         | 31.65      | 90.34       | 112.79     | -----      | -----  | peak |
| 2    | p 5895.000 | 19.57      | 34.58         | 31.65      | 80.60       | 103.10     | 110.20     | -7.10  | peak |
| 3    | 5931.508   | 19.59      | 34.66         | 31.67      | 41.39       | 63.97      | 88.20      | -24.23 | peak |

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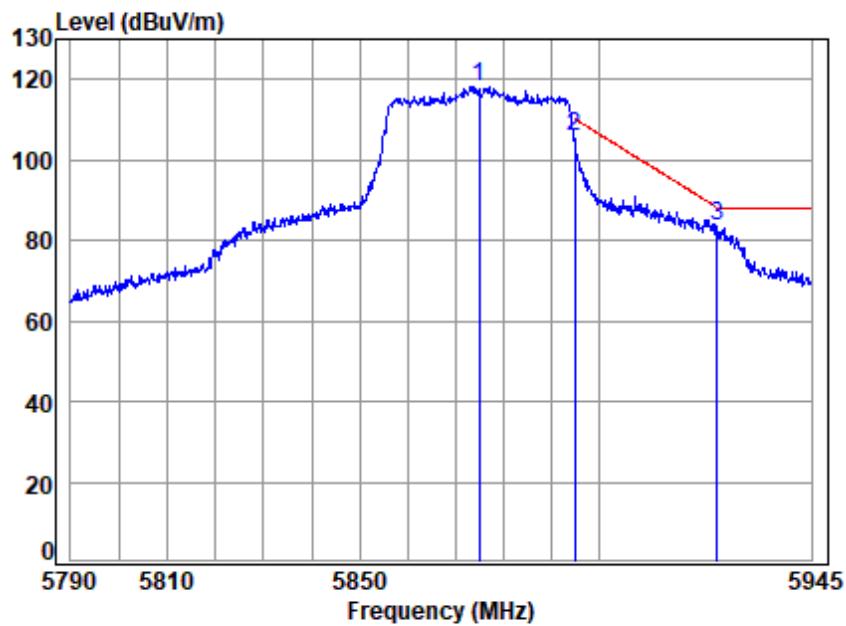
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04576AT/04577AT  
Mode : 5875 Band edge  
: 5G WIFI 11AX40

| Freq         | Cable Loss | Ant Factor | Preamp Factor | Read  | Limit Level | Limit Line | Over Limit | Remark |
|--------------|------------|------------|---------------|-------|-------------|------------|------------|--------|
|              |            |            |               | Level |             |            |            |        |
| MHz          | dB         | dB/m       | dB            | dB    | dBuV        | dBuV/m     | dB         |        |
| 1 5875.000   | 19.55      | 34.50      | 31.64         | 95.86 | 118.27      | -----      | -----      | peak   |
| 2 p 5895.000 | 19.57      | 34.58      | 31.65         | 83.07 | 105.57      | 110.20     | -4.63      | peak   |
| 3 5925.087   | 19.58      | 34.65      | 31.67         | 61.01 | 83.57       | 88.20      | -4.63      | peak   |

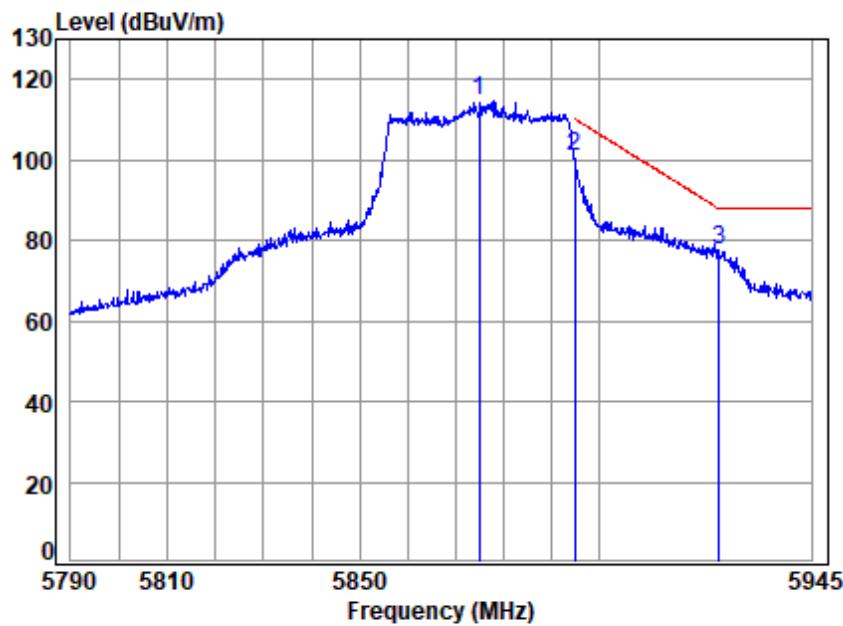
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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



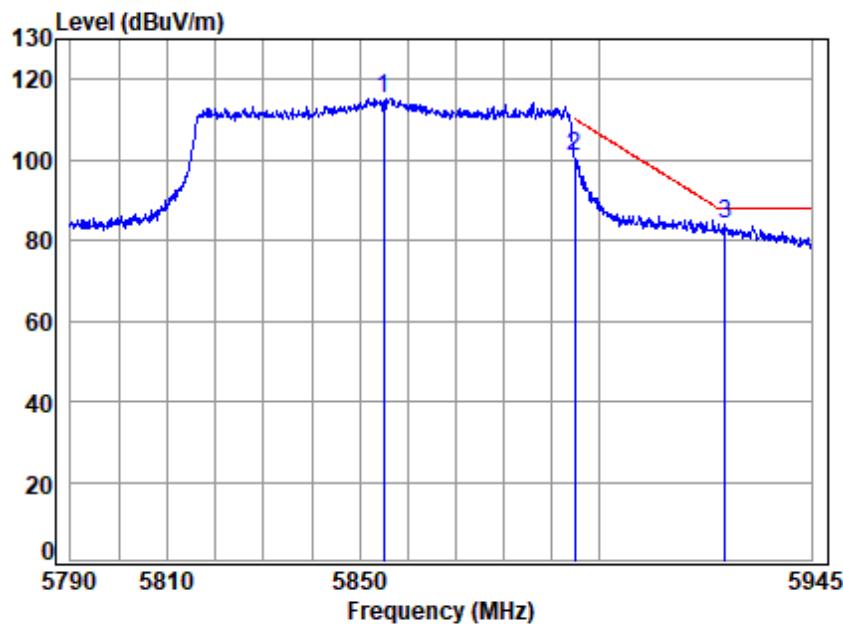
Site : chamber  
Condition: 3m VERTICAL  
Job No : 04576AT/04577AT  
Mode : 5875 Band edge  
: 5G WIFI 11AX40

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read  | Limit Line | Over Limit | Remark            |
|------|------------|------------|---------------|-------|------------|------------|-------------------|
|      |            |            |               | Level |            |            |                   |
|      | MHz        | dB         |               | dB    | dBuV       | dBuV/m     | dBuV/m            |
| 1    | 5875.000   | 19.55      | 34.50         | 31.64 | 92.25      | 114.66     | ----- peak        |
| 2    | p 5895.000 | 19.57      | 34.58         | 31.65 | 78.48      | 100.98     | 110.20 -9.22 peak |
| 3    | 5925.557   | 19.58      | 34.65         | 31.67 | 55.21      | 77.77      | 88.20 -10.43 peak |

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04576AT/04577AT  
Mode : 5855 Band edge  
: 5G WIFI 11AX80

| Freq         | Cable Loss | Ant Factor | Preamp Factor | Read  | Limit Line | Over Limit | Remark     |
|--------------|------------|------------|---------------|-------|------------|------------|------------|
|              |            |            |               | Level |            |            |            |
| 1 5855.000   | 19.54      | 34.42      | 31.63         | 92.99 | 115.32     | -----      | ----- peak |
| 2 5895.000   | 19.57      | 34.58      | 31.65         | 78.43 | 100.93     | 110.20     | -9.27 peak |
| 3 p 5926.810 | 19.58      | 34.65      | 31.67         | 61.48 | 84.04      | 88.20      | -4.16 peak |

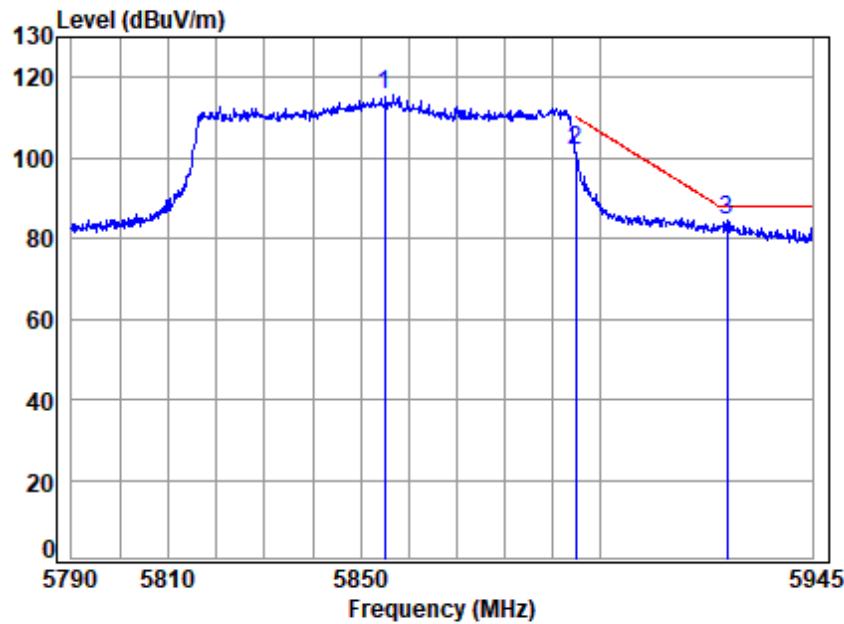
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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 04576AT/04577AT  
Mode : 5855 Band edge  
: 5G WIFI 11AX80

| Freq         | Cable Loss | Ant Factor | Preamp Factor | Read  | Limit Level | Line Limit | Over Limit | Remark |
|--------------|------------|------------|---------------|-------|-------------|------------|------------|--------|
|              |            |            |               | Level |             |            |            |        |
| MHz          | dB         | dB/m       | dB            | dB    | dBuV        | dBuV/m     | dBuV/m     | dB     |
| 1 5855.000   | 19.54      | 34.42      | 31.63         | 93.39 | 115.72      | -----      | -----      | peak   |
| 2 5895.000   | 19.57      | 34.58      | 31.65         | 79.57 | 102.07      | 110.20     | -8.13      | peak   |
| 3 p 5926.966 | 19.58      | 34.65      | 31.67         | 61.79 | 84.35       | 88.20      | -3.85      | peak   |

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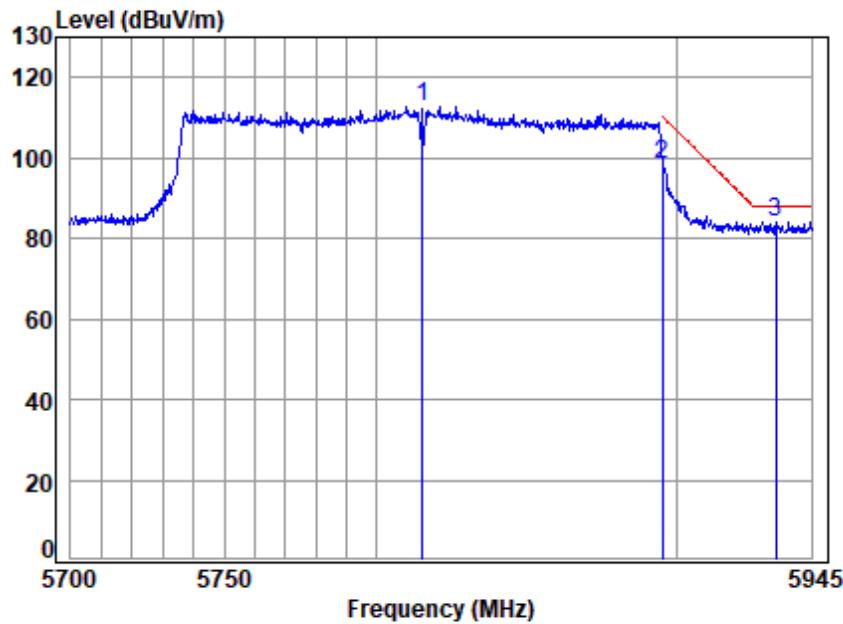
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04576AT/04577AT  
Mode : 5815 Band edge  
: 5G WIFI 11AX160

| Freq | Cable    | Ant    | Preamp | Read  | Limit | Over   | Remark |             |
|------|----------|--------|--------|-------|-------|--------|--------|-------------|
|      | Loss     | Factor | Factor | Level |       |        |        |             |
|      | MHz      | dB     | dB/m   | dB    | dBuV  | dBuV/m | dBuV/m | dB          |
| 1    | 5815.000 | 19.51  | 34.33  | 31.61 | 90.53 | 112.76 | -----  | ----- peak  |
| 2    | 5895.000 | 19.57  | 34.58  | 31.65 | 76.01 | 98.51  | 110.20 | -11.69 peak |
| 3 p  | 5933.003 | 19.59  | 34.67  | 31.67 | 61.65 | 84.24  | 88.20  | -3.96 peak  |

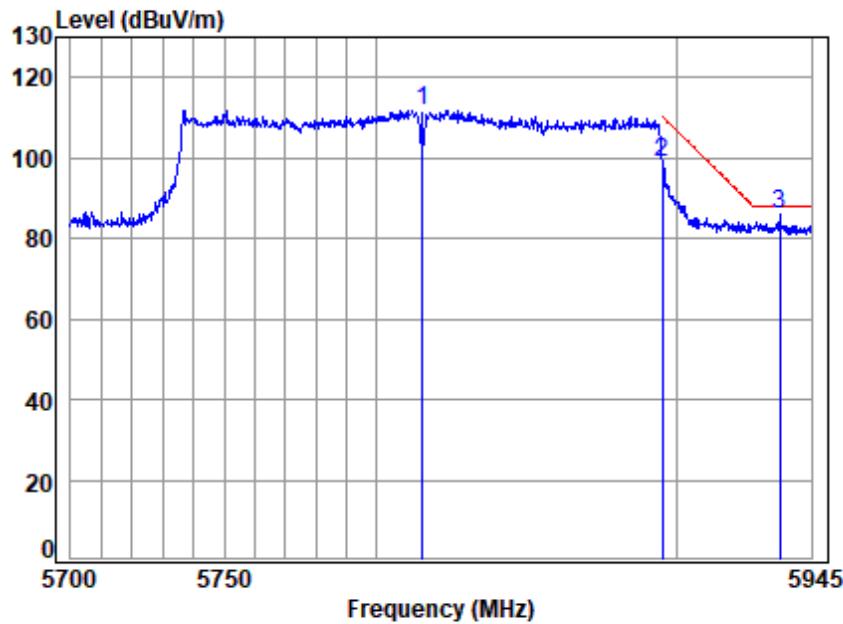
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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 04576AT/04577AT  
Mode : 5815 Band edge  
: 5G WIFI 11AX160

| Freq         | Cable | Ant    | Preamp | Read  | Limit  | Over   | Over   |        |
|--------------|-------|--------|--------|-------|--------|--------|--------|--------|
|              | Loss  | Factor | Factor | Level |        |        |        | Remark |
| MHz          | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1 5815.000   | 19.51 | 34.33  | 31.61  | 89.72 | 111.95 | -----  | -----  | peak   |
| 2 5895.000   | 19.57 | 34.58  | 31.65  | 76.33 | 98.83  | 110.20 | -11.37 | peak   |
| 3 p 5934.501 | 19.59 | 34.67  | 31.67  | 63.21 | 85.80  | 88.20  | -2.40  | peak   |

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## 7.6 Duty Cycle

Test Requirement ANSI C63.10 (2013) Section 12.2

Test Method: ANSI C63.10 (2013) Section 12.2

### 7.6.1 E.U.T. Operation

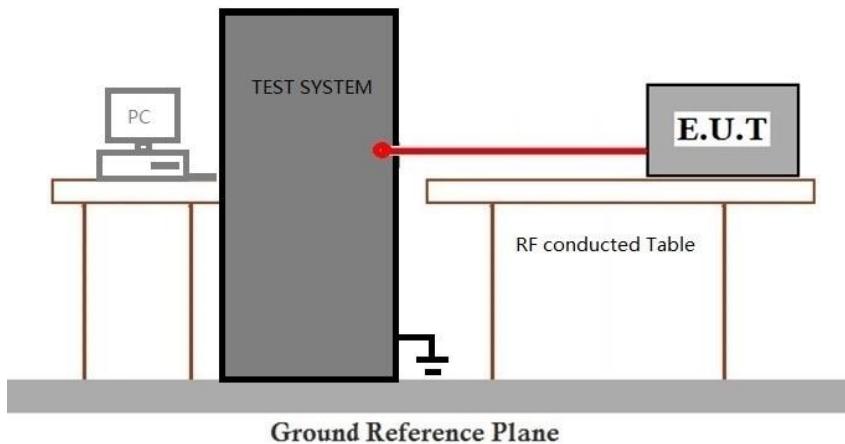
Operating Environment:

Temperature: 23.3 °C      Humidity: 34.1 % RH      Atmospheric Pressure: 1020 mbar

### 7.6.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description   |
|-----------------------|-----------|---|
| Final test            | 08        | TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |

### 7.6.3 Test Setup Diagram



### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.7 99% Bandwidth

Test Requirement ANSI C63.10 (2013) Section 12.4.2

Test Method: ANSI C63.10 (2013) Section 12.4.2

### 7.7.1 E.U.T. Operation

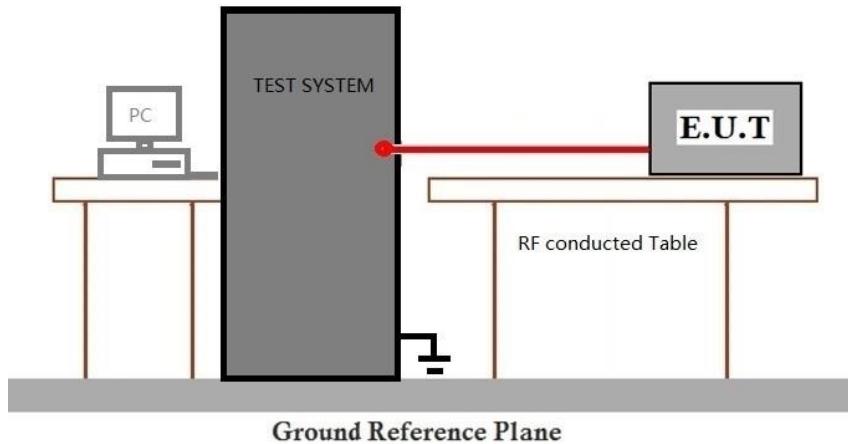
Operating Environment:

Temperature: 23.3 °C      Humidity: 34.1 % RH      Atmospheric Pressure: 1020 mbar

### 7.7.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description   |
|-----------------------|-----------|---|
| Final test            | 08        | TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |

### 7.7.3 Test Setup Diagram



### 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.8 Minimum 6 dB bandwidth

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

Test Method: ANSI C63.10 (2013) Section 6.9.2

Limit:

| Frequency band(MHz) | Limit    |
|---------------------|----------|
| 5725-5895           | ≥500 kHz |

### 7.8.1 E.U.T. Operation

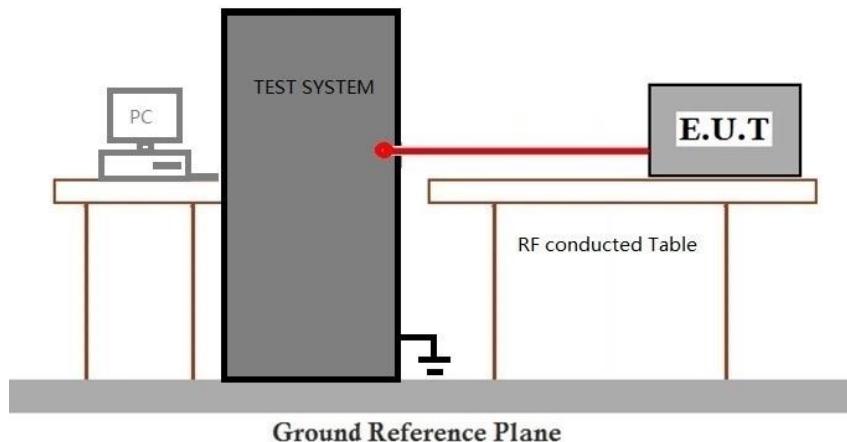
Operating Environment:

Temperature: 23.3 °C      Humidity: 34.1 % RH      Atmospheric Pressure: 1020 mbar

### 7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description   |
|-----------------------|-----------|---|
| Final test            | 08        | TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |

### 7.8.3 Test Setup Diagram



### 7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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## 7.9 Peak Power spectrum density

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

Test Method: ANSI C63.10 (2013) Section 12.5

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  |
| 5850-5895           | ≤20dBm EIRP PSD  |
| 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. |

### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C      Humidity: 34.1 % RH      Atmospheric Pressure: 1020 mbar

### 7.9.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description   |
|-----------------------|-----------|---|
| Final test            | 08        | TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |

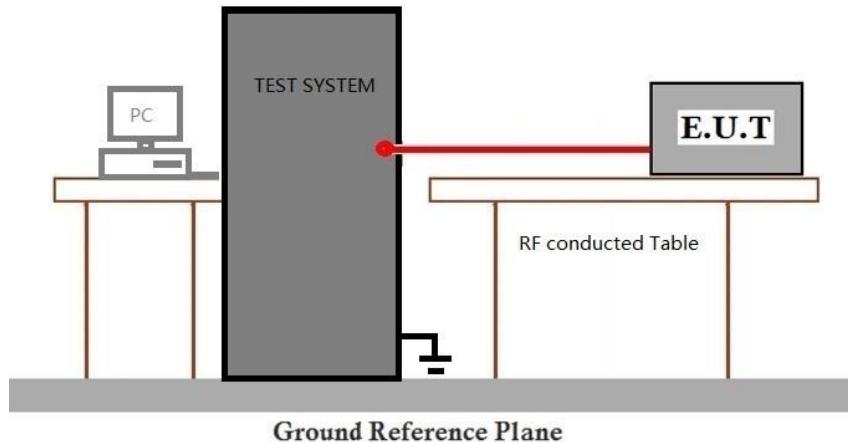
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**7.9.3 Test Setup Diagram****7.9.4 Measurement Procedure and Data**

Please Refer to Appendix for Details

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## 7.10 Frequency Stability

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

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

### 7.10.1 E.U.T. Operation

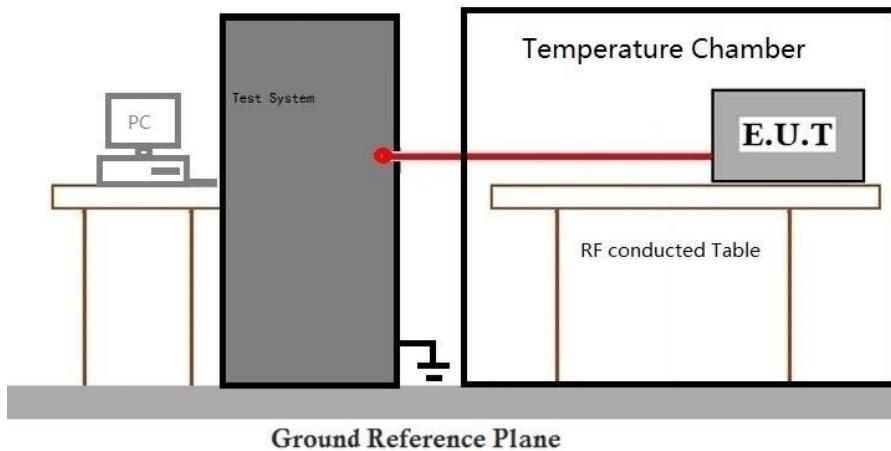
Operating Environment:

Temperature: 23.3 °C      Humidity: 34.1 % RH      Atmospheric Pressure: 1020 mbar

### 7.10.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description   |
|-----------------------|-----------|---|
| Final test            | 08        | TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |

### 7.10.3 Test Setup Diagram



### 7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2412004576AT

## 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2412004576AT



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## 10 Appendix

### 1. Duty Cycle

#### 1.1 Test Result

##### 1.1.1 Ant1

| Ant1              |         |                 |    |        |           |             |                |                                   |                       |
|-------------------|---------|-----------------|----|--------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode              | TX Type | Frequency (MHz) | RU | RU Pos | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11a           | SISO    | 5865            | /  | /      | 1.976     | 1.993       | 99.15          | 0.04                              | 0.00                  |
|                   |         | 5885            | /  | /      | 1.976     | 1.994       | 99.10          | 0.04                              | 0.03                  |
|                   |         | 5845            | /  | /      | 1.976     | 1.993       | 99.15          | 0.04                              | 0.03                  |
| 802.11n (HT20)    | MIMO    | 5865            | /  | /      | 5.428     | 5.608       | 96.79          | 0.14                              | 2.26                  |
|                   |         | 5885            | /  | /      | 5.428     | 5.616       | 96.65          | 0.15                              | 1.61                  |
|                   |         | 5845            | /  | /      | 5.428     | 5.606       | 96.82          | 0.14                              | 2.23                  |
| 802.11n (HT40)    | MIMO    | 5875            | /  | /      | 5.428     | 5.616       | 96.65          | 0.15                              | 2.26                  |
|                   |         | 5835            | /  | /      | 5.428     | 5.606       | 96.82          | 0.14                              | 1.90                  |
| 802.11ac (VHT20)  | MIMO    | 5865            | /  | /      | 5.428     | 5.570       | 97.45          | 0.11                              | 1.42                  |
|                   |         | 5885            | /  | /      | 5.428     | 5.616       | 96.65          | 0.15                              | 2.40                  |
|                   |         | 5845            | /  | /      | 5.428     | 5.608       | 96.79          | 0.14                              | 1.94                  |
| 802.11ac (VHT40)  | MIMO    | 5875            | /  | /      | 5.428     | 5.596       | 97.00          | 0.13                              | 2.05                  |
|                   |         | 5835            | /  | /      | 5.430     | 5.588       | 97.17          | 0.12                              | 1.88                  |
| 802.11ac (VHT80)  | MIMO    | 5855            | /  | /      | 5.428     | 5.588       | 97.14          | 0.13                              | 1.95                  |
| 802.11ac (VHT160) | MIMO    | 5815            | /  | /      | 5.430     | 5.588       | 97.17          | 0.12                              | 1.92                  |
| 802.11ax (HEW20)  | MIMO    | 5865            | SU | /      | 5.454     | 5.640       | 96.70          | 0.15                              | 2.17                  |
|                   |         | 5885            | SU | /      | 5.452     | 5.630       | 96.84          | 0.14                              | 2.18                  |
|                   |         | 5845            | SU | /      | 5.454     | 5.640       | 96.70          | 0.15                              | 2.17                  |
| 802.11ax (HEW40)  | MIMO    | 5875            | SU | /      | 5.452     | 5.470       | 99.67          | 0.01                              | 0.04                  |
|                   |         | 5835            | SU | /      | 5.452     | 5.630       | 96.84          | 0.14                              | 2.22                  |
| 802.11ax (HEW80)  | MIMO    | 5855            | SU | /      | 5.452     | 5.640       | 96.67          | 0.15                              | 2.25                  |
| 802.11ax (HEW160) | MIMO    | 5815            | SU | /      | 5.452     | 5.640       | 96.67          | 0.15                              | 2.39                  |
| 802.11be (EHT20)  | MIMO    | 5865            | SU | /      | 5.462     | 5.634       | 96.95          | 0.13                              | 1.57                  |
|                   |         | 5885            | SU | /      | 5.447     | 5.626       | 96.82          | 0.14                              | 2.06                  |

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|                      |      | 5845 | SU | / | 5.446 | 5.616 | 96.97 | 0.13 | 2.08 |
|----------------------|------|------|----|---|-------|-------|-------|------|------|
| 802.11be<br>(EHT40)  | MIMO | 5875 | SU | / | 5.446 | 5.596 | 97.32 | 0.12 | 1.74 |
|                      |      | 5835 | SU | / | 5.446 | 5.632 | 96.70 | 0.15 | 2.36 |
| 802.11be<br>(EHT80)  | MIMO | 5855 | SU | / | 5.446 | 5.634 | 96.66 | 0.15 | 1.89 |
| 802.11be<br>(EHT160) | MIMO | 5815 | SU | / | 5.448 | 5.634 | 96.70 | 0.15 | 1.89 |

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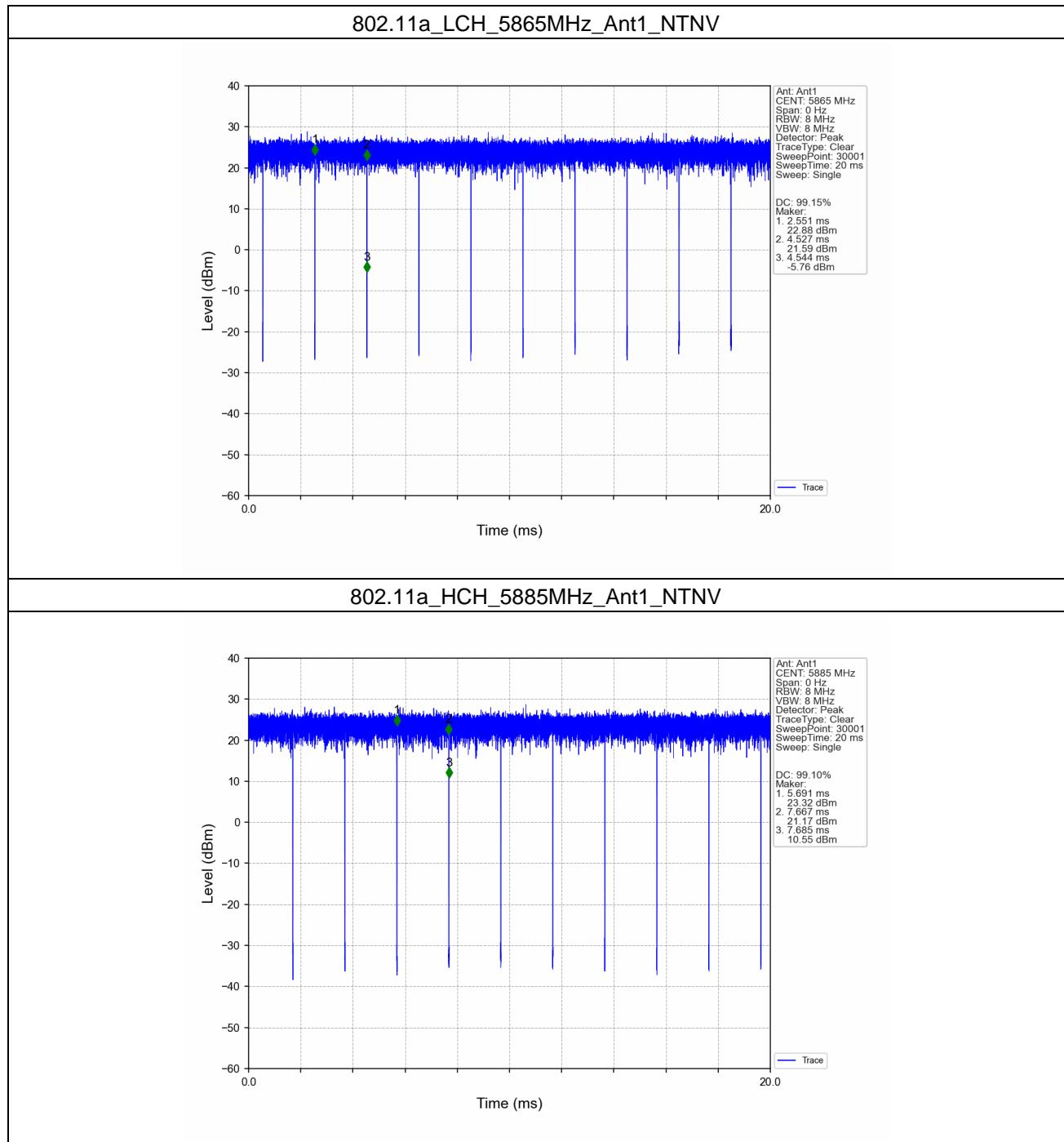
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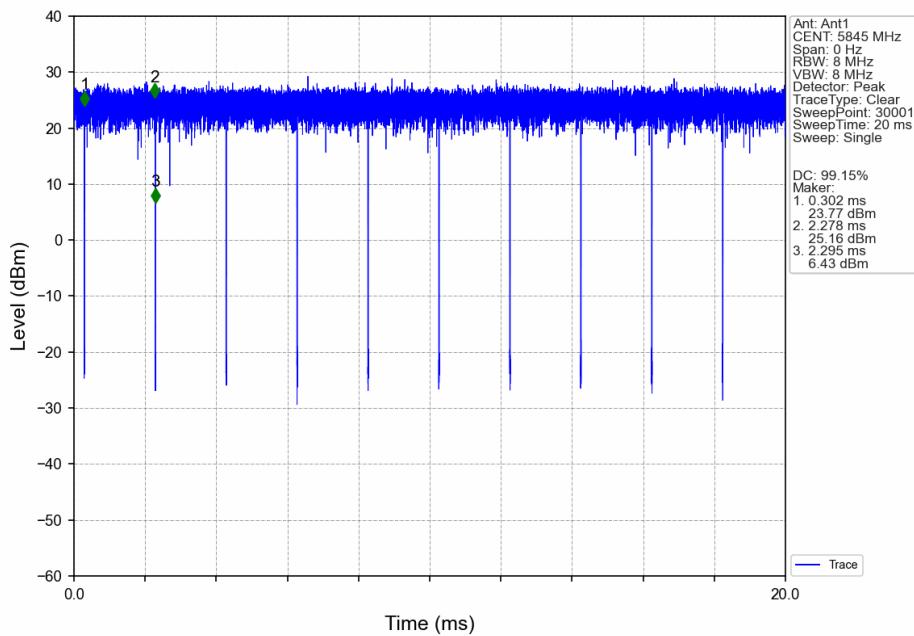
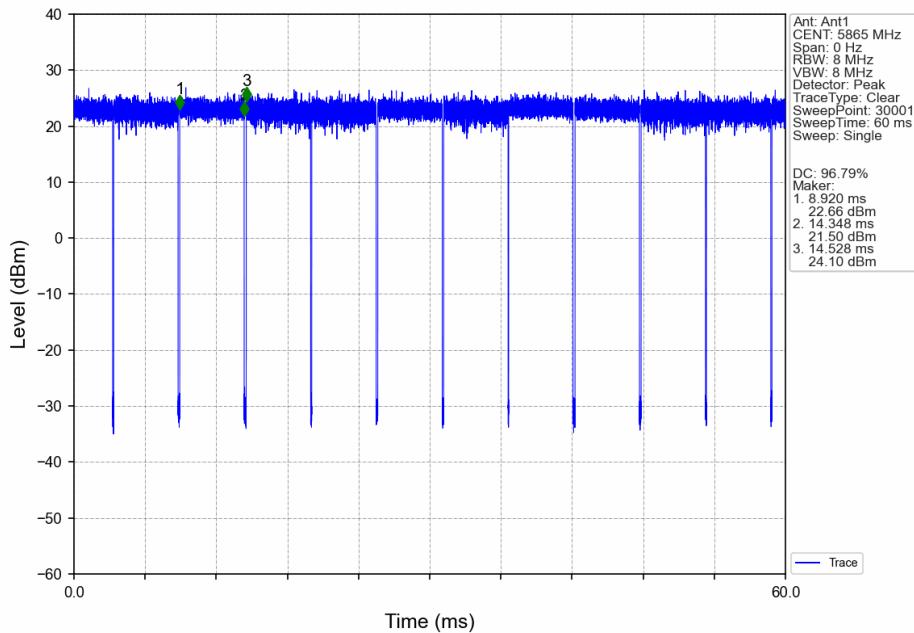
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## 1.2 Test Graph

### 1.2.1 Ant1



**802.11a\_HCH\_5845MHz\_Ant1\_NTNV****802.11n(HT20)\_LCH\_5865MHz\_Ant1\_NTNV**

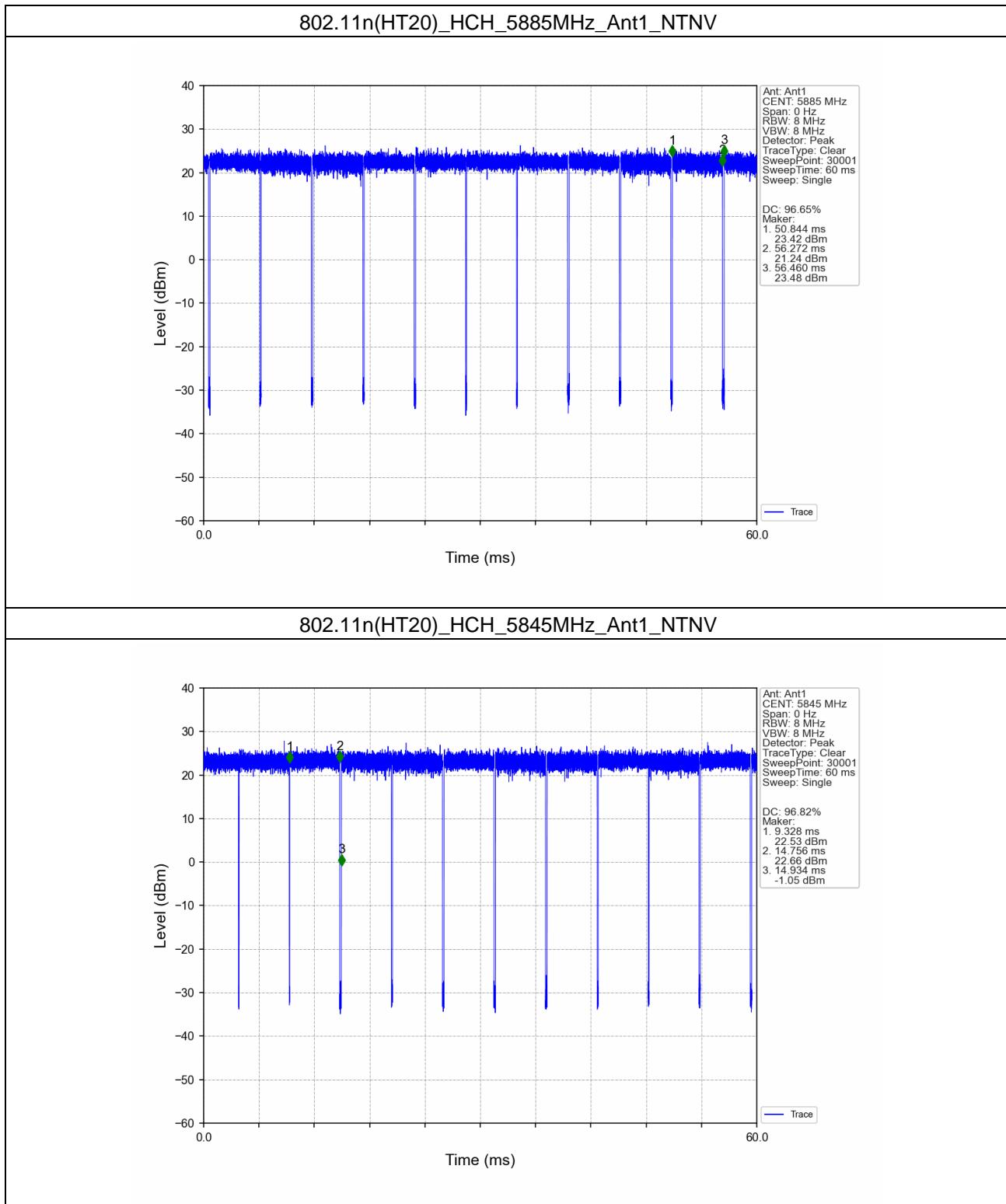
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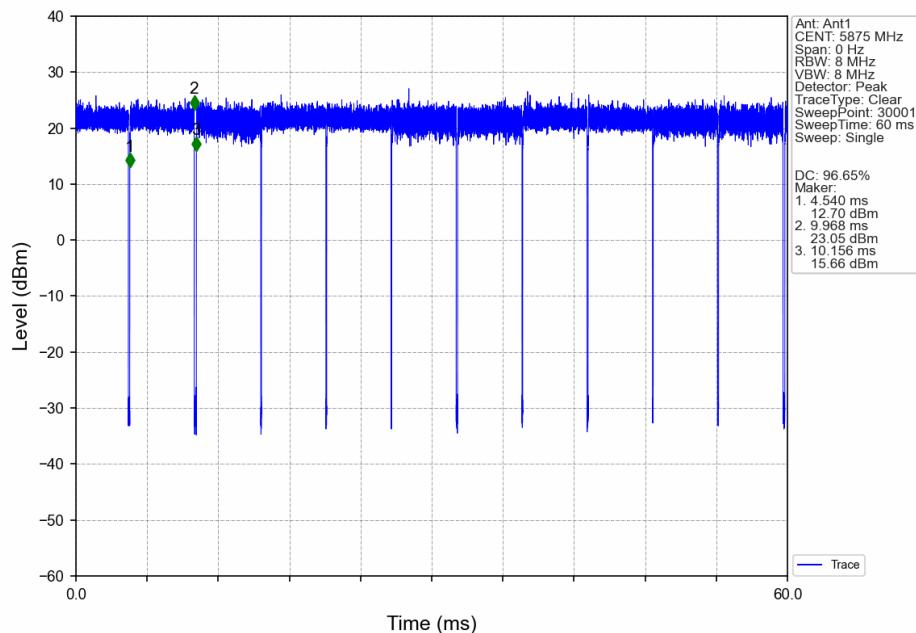
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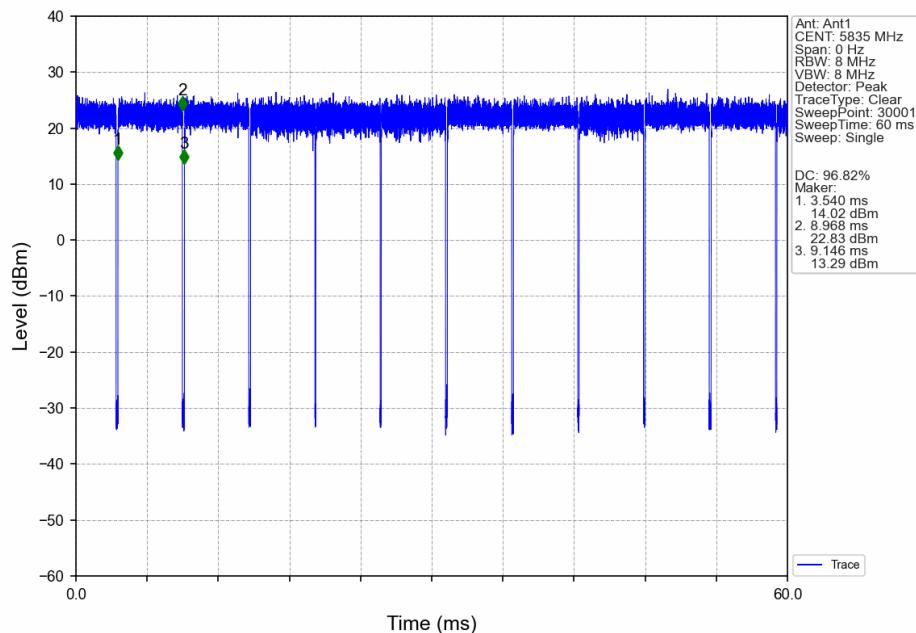
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### 802.11n(HT40)\_MCH\_5875MHz\_Ant1\_NTNV



### 802.11n(HT40)\_HCH\_5835MHz\_Ant1\_NTNV



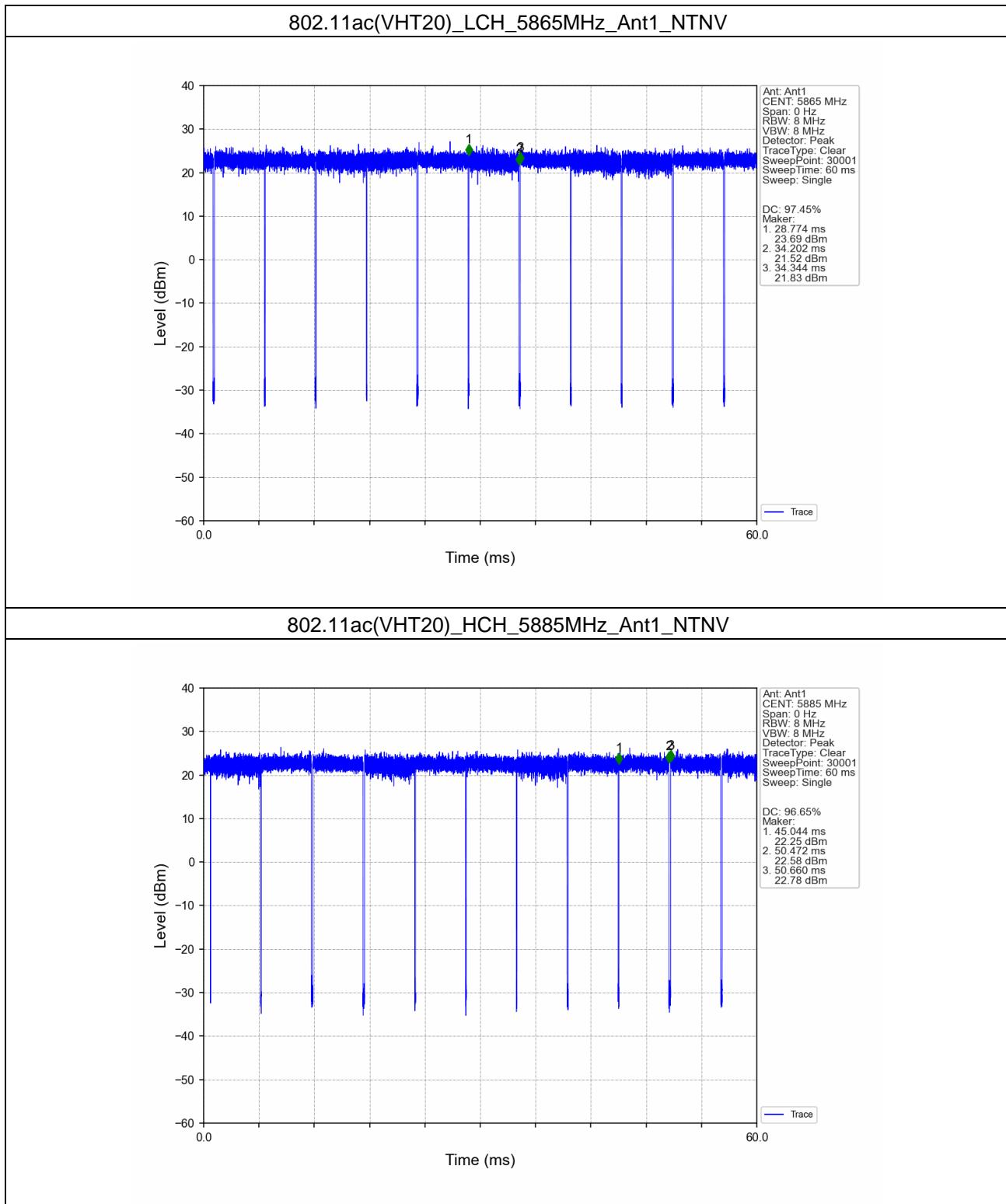
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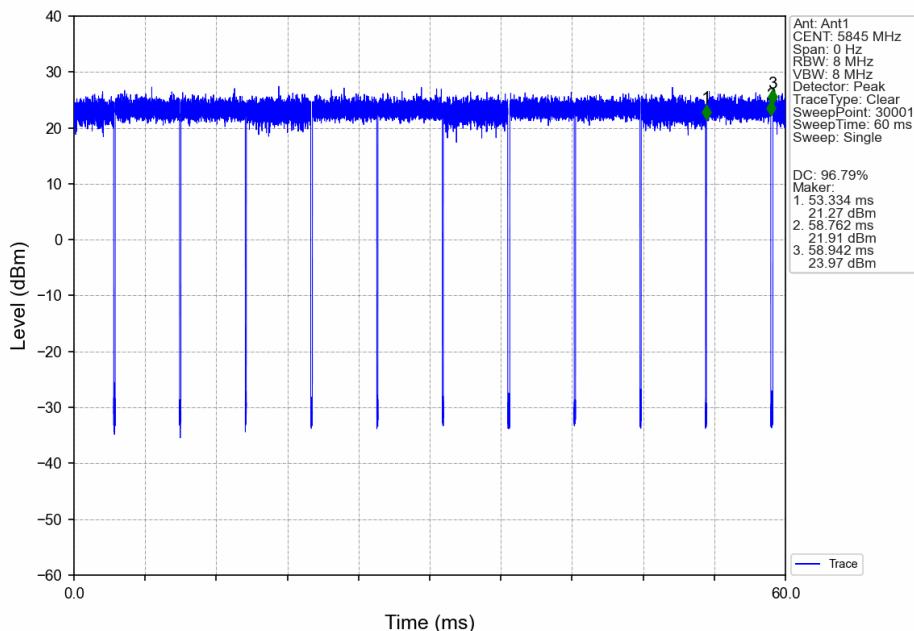
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### 802.11ac(VHT20)\_HCH\_5845MHz\_Ant1\_NTNV



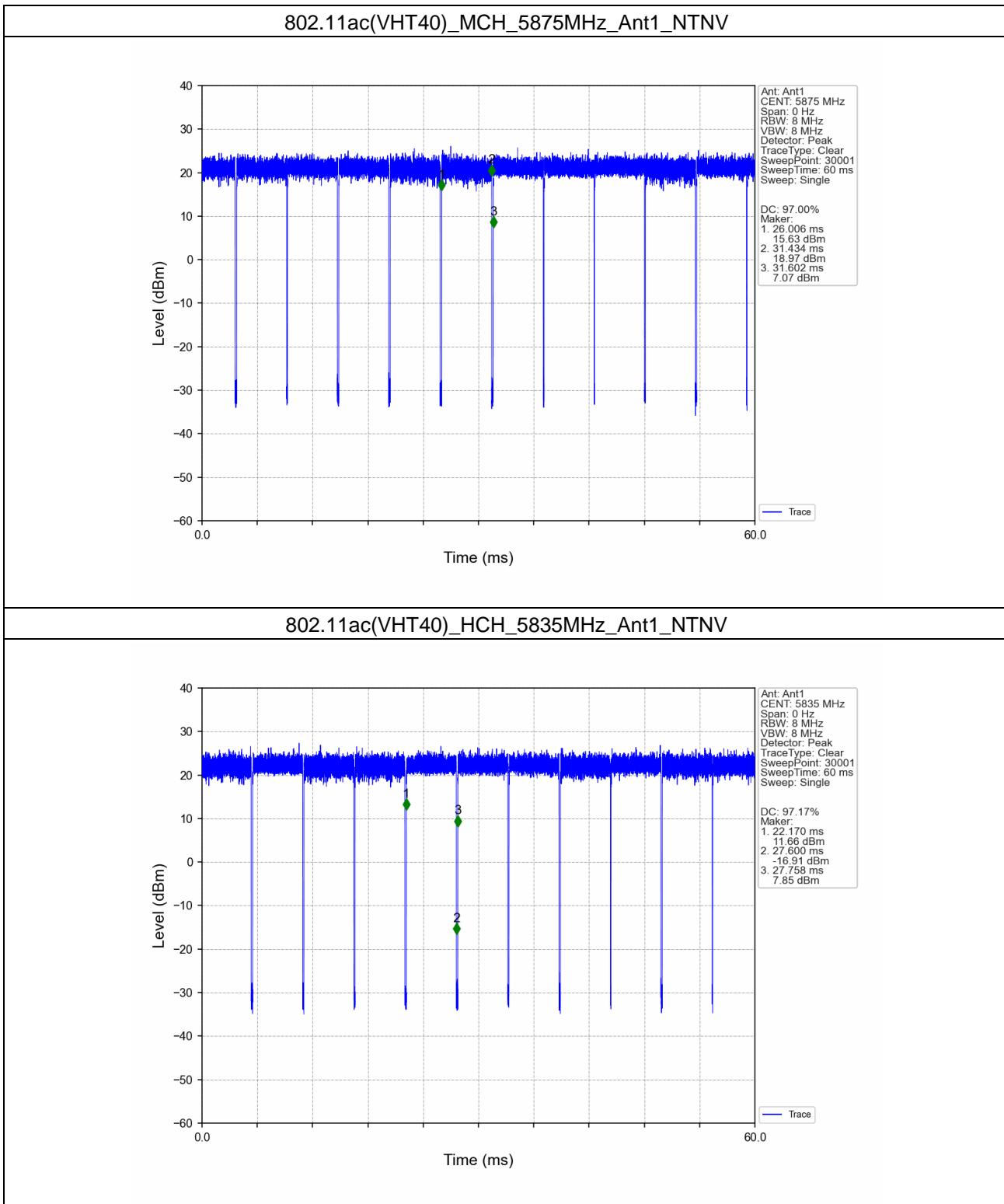
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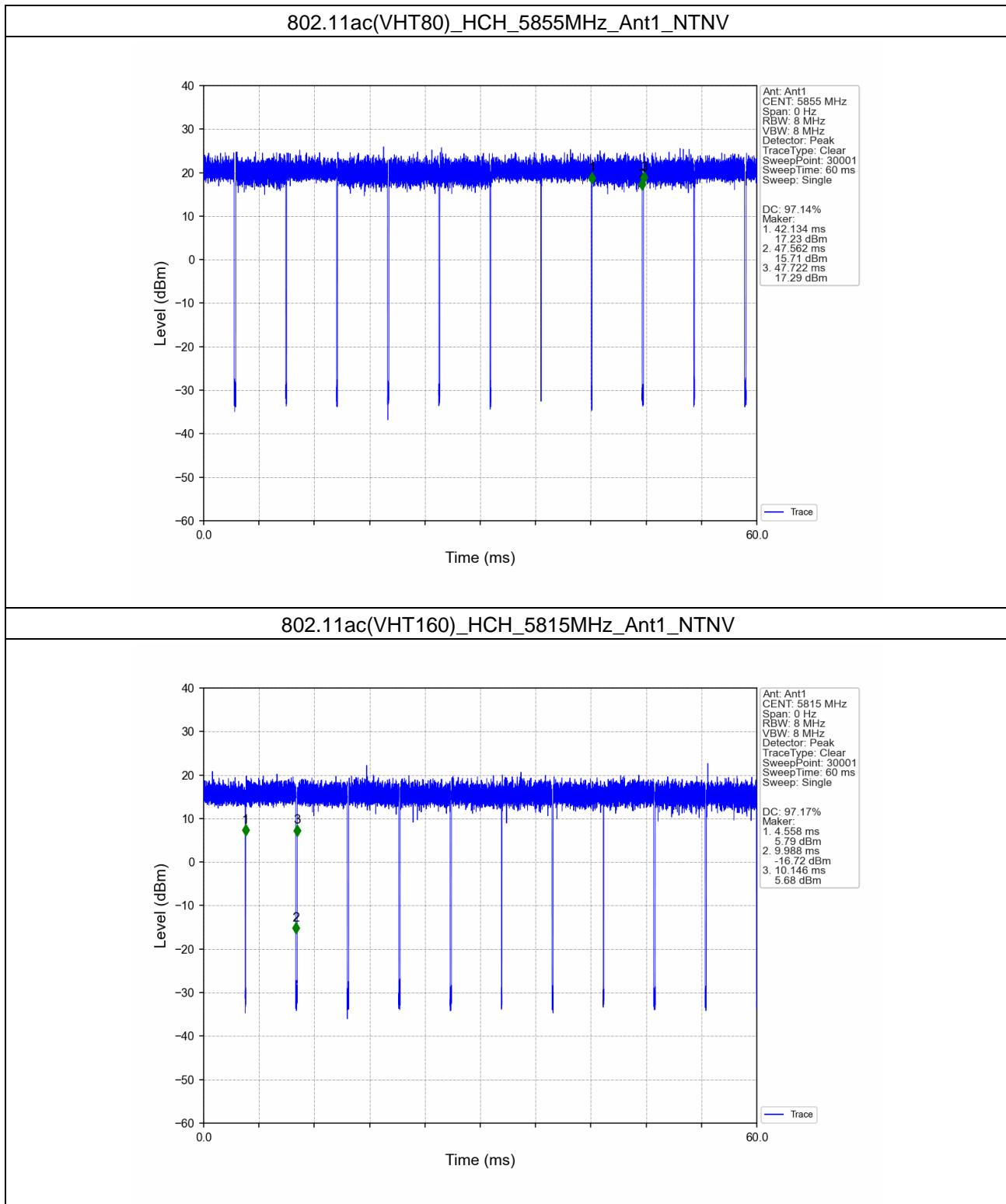
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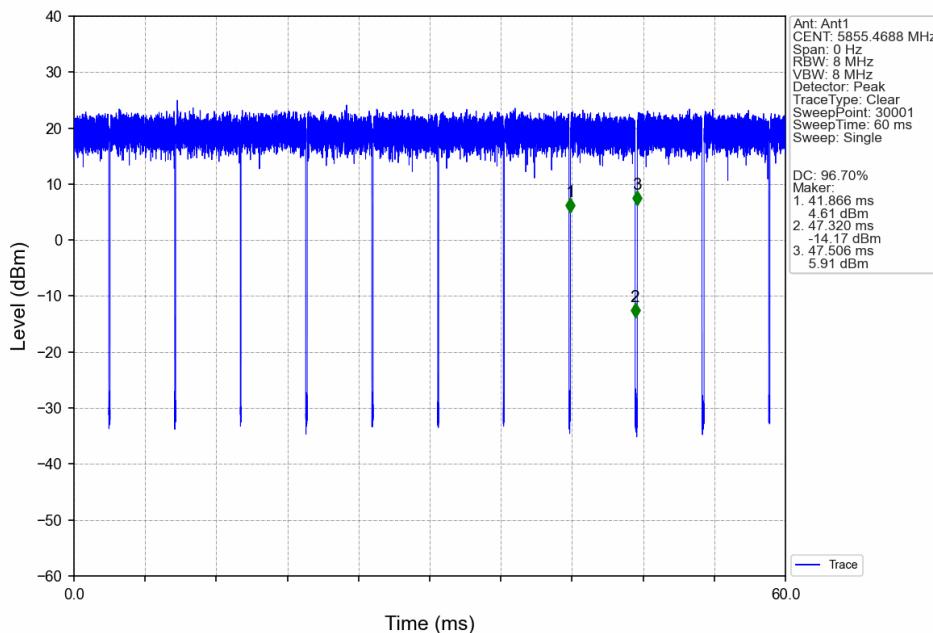
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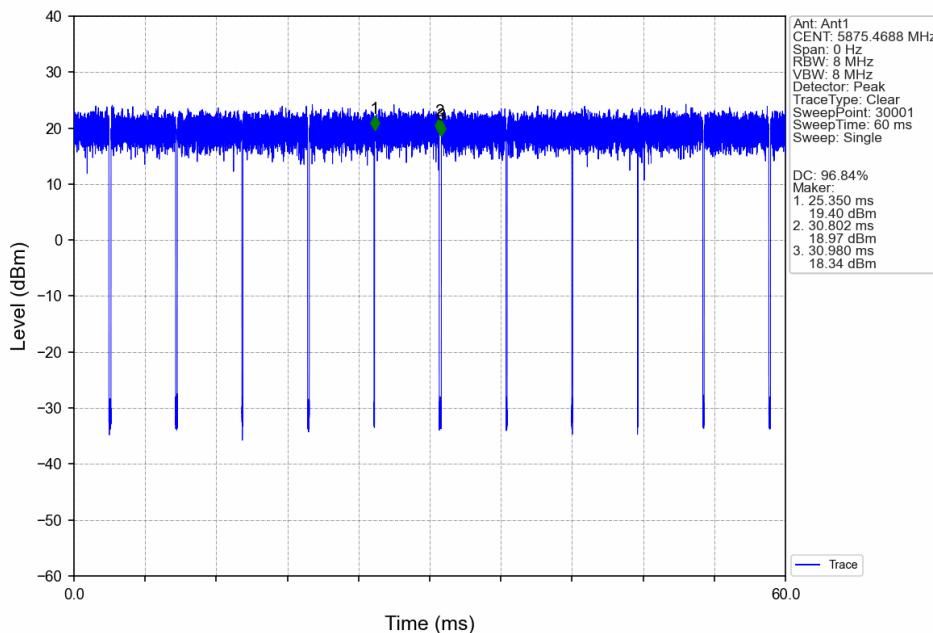




### 802.11ax(HEW20)\_LCH\_5865MHz\_SU\_ / \_Ant1\_NTNV



### 802.11ax(HEW20)\_HCH\_5885MHz\_SU\_ / \_Ant1\_NTNV



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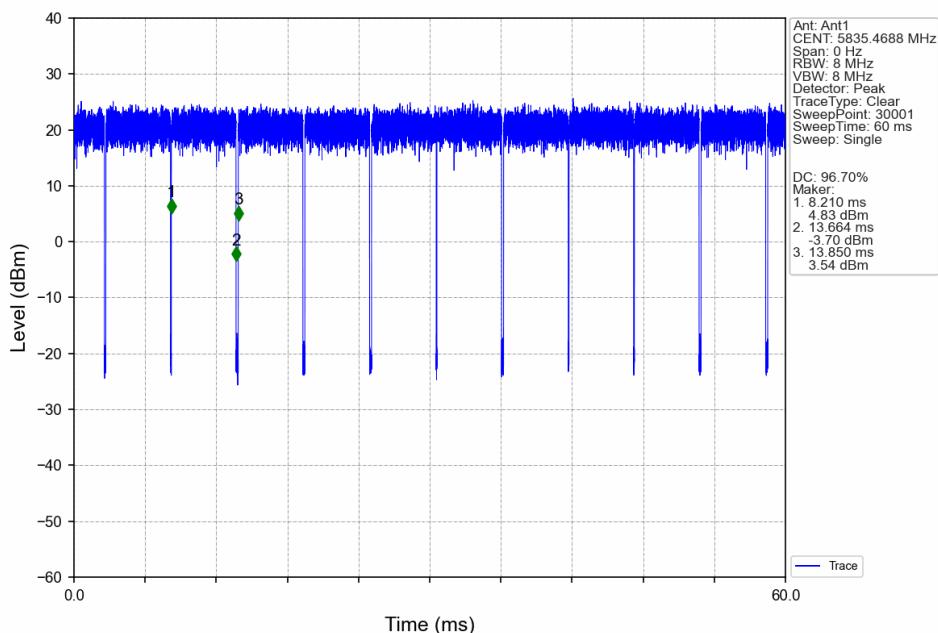
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### 802.11ax(HEW20)\_HCH\_5845MHz\_SU\_/\_Ant1\_NTNV



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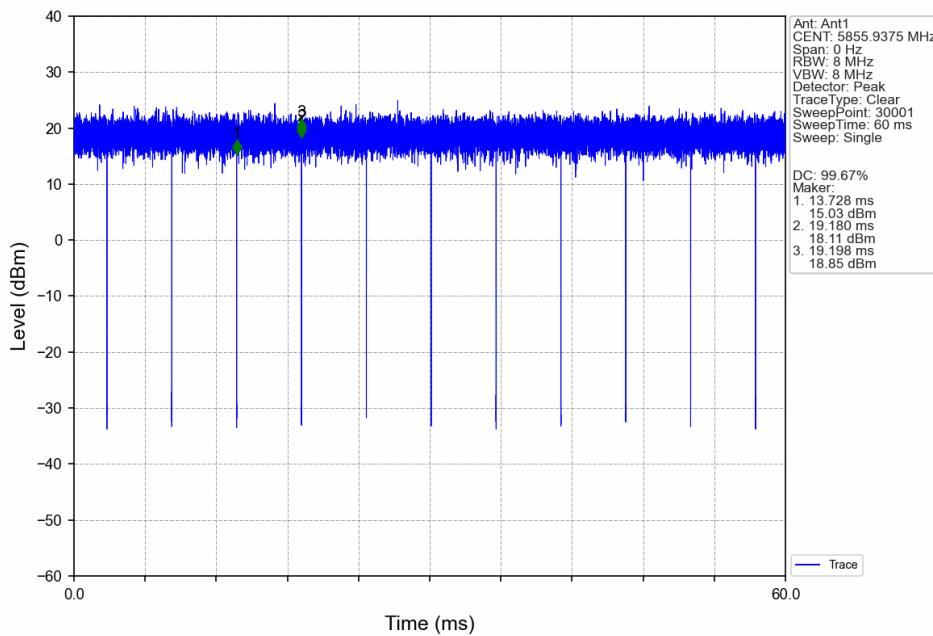
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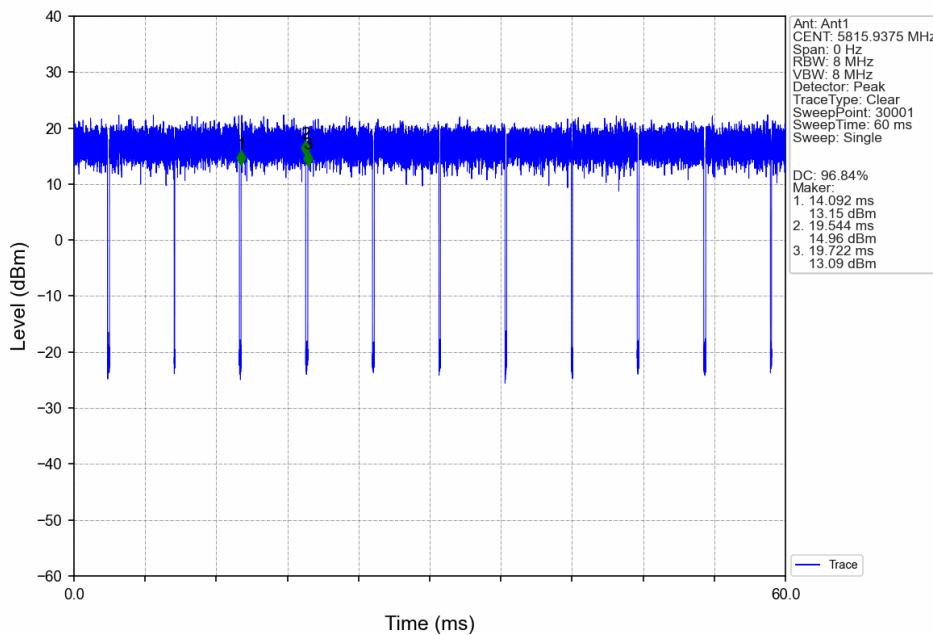
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### 802.11ax(HEW40)\_MCH\_5875MHz\_SU\_ / \_Ant1\_NTNV



### 802.11ax(HEW40)\_HCH\_5835MHz\_SU\_ / \_Ant1\_NTNV



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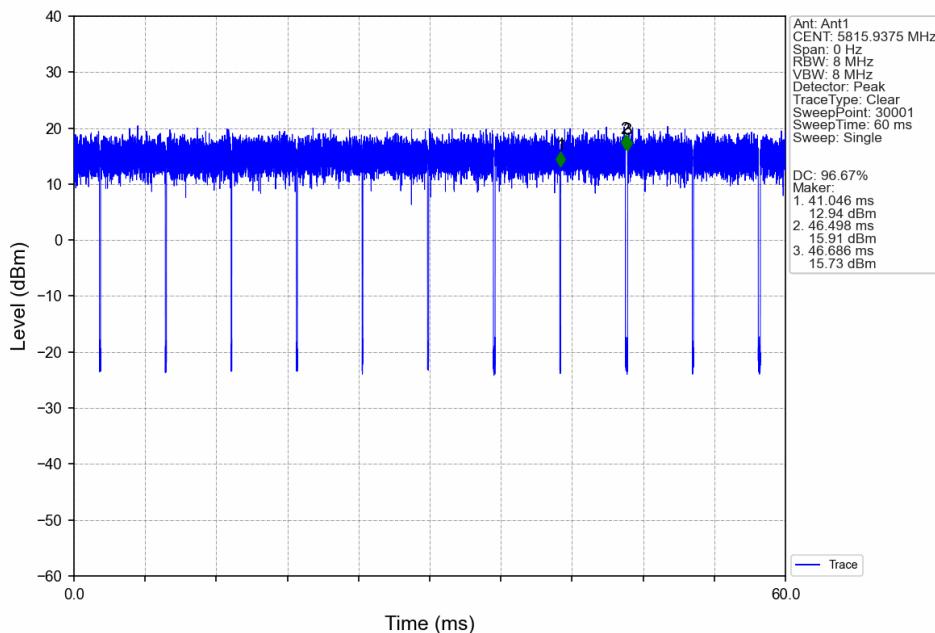
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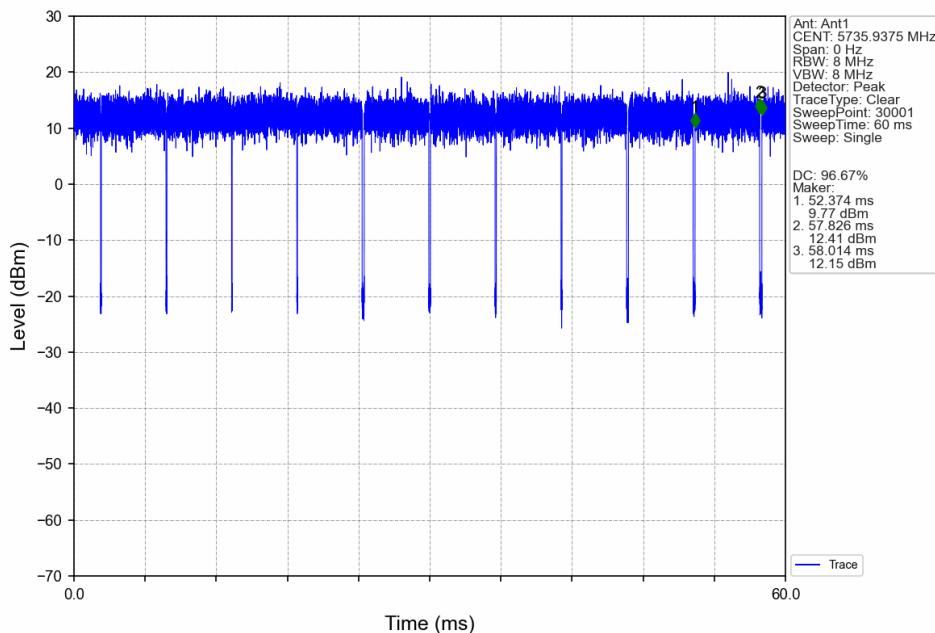
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### 802.11ax(HEW80)\_HCH\_5855MHz\_SU\_ / \_Ant1\_NTNV



### 802.11ax(HEW160)\_HCH\_5815MHz\_SU\_ / \_Ant1\_NTNV



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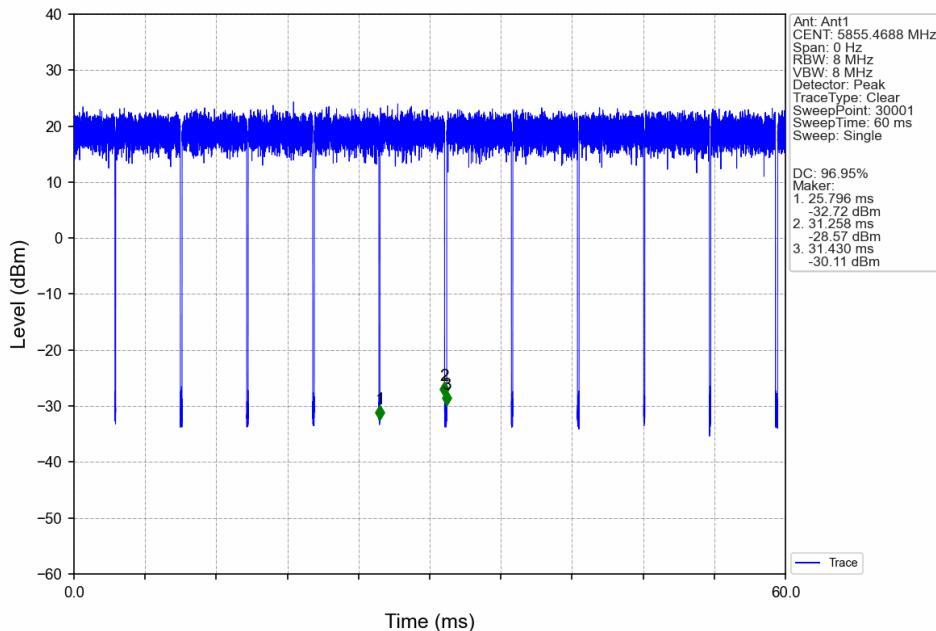
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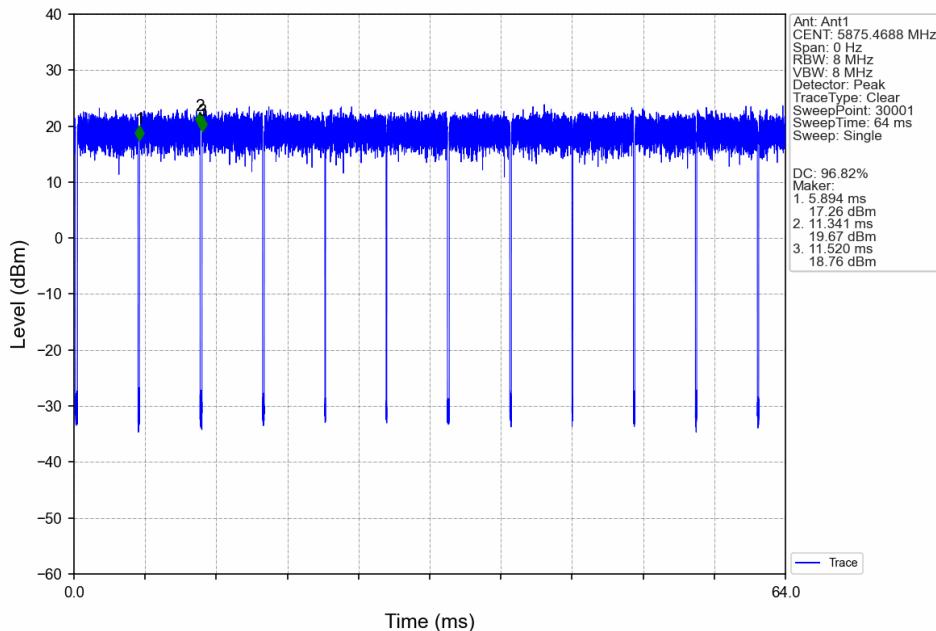
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### 802.11be(EHT20)\_LCH\_5865MHz\_SU\_ / \_Ant1\_NTNV



### 802.11be(EHT20)\_HCH\_5885MHz\_SU\_ / \_Ant1\_NTNV



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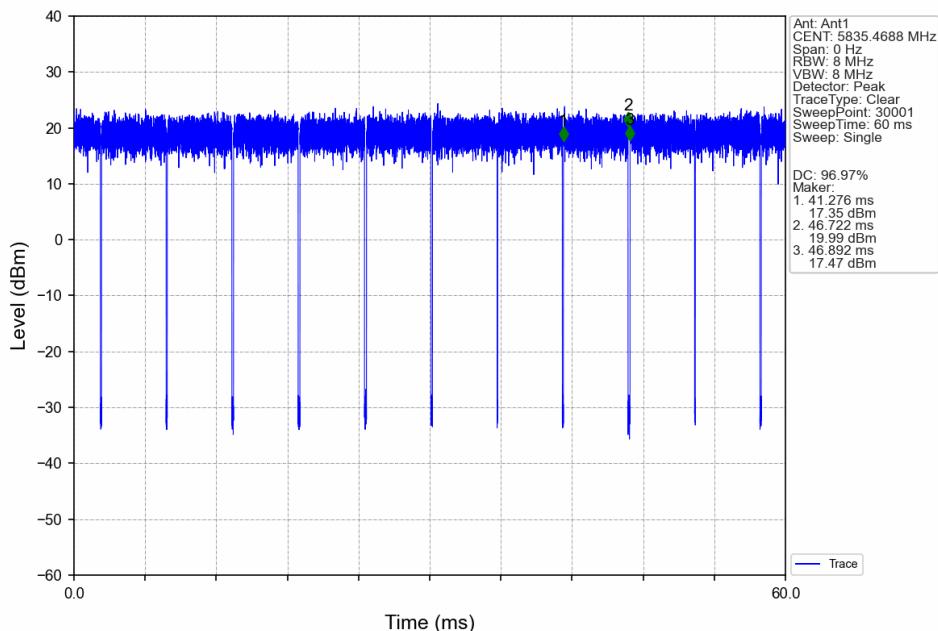
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### 802.11be(EHT20)\_HCH\_5845MHz\_SU\_/\_Ant1\_NTNV

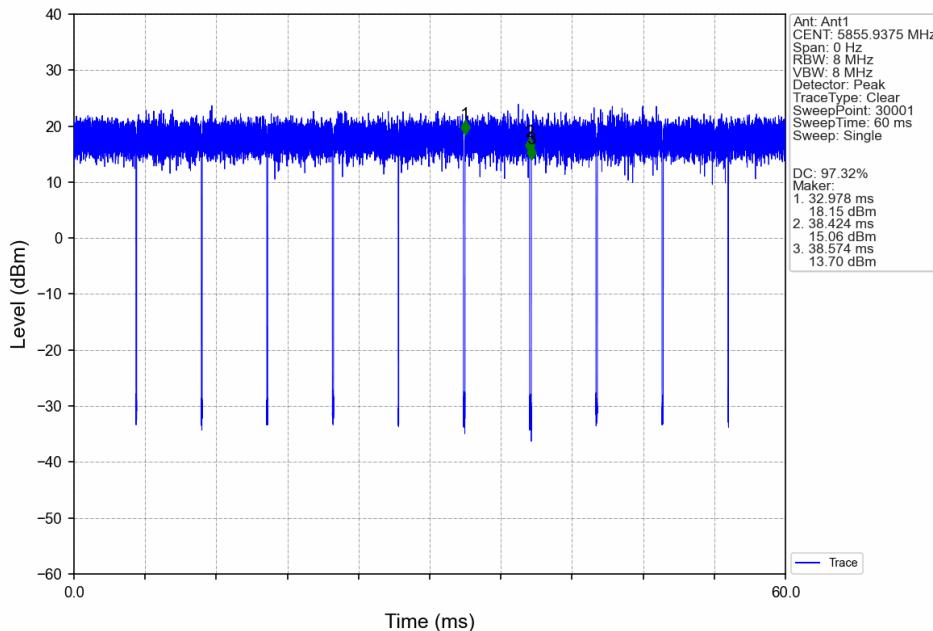
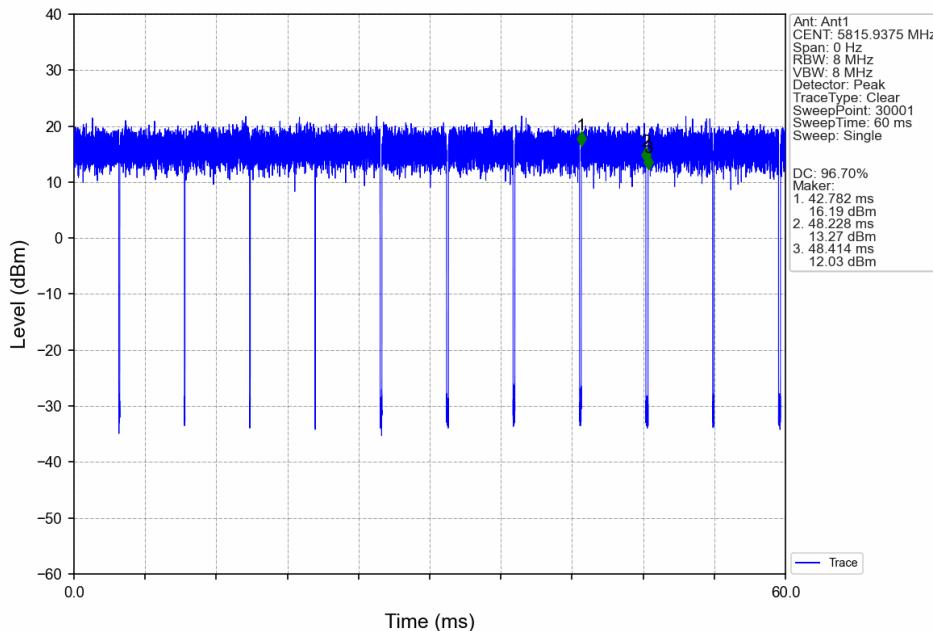


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**802.11be(EHT40)\_MCH\_5875MHz\_SU\_ / \_Ant1\_NTNV****802.11be(EHT40)\_HCH\_5835MHz\_SU\_ / \_Ant1\_NTNV**

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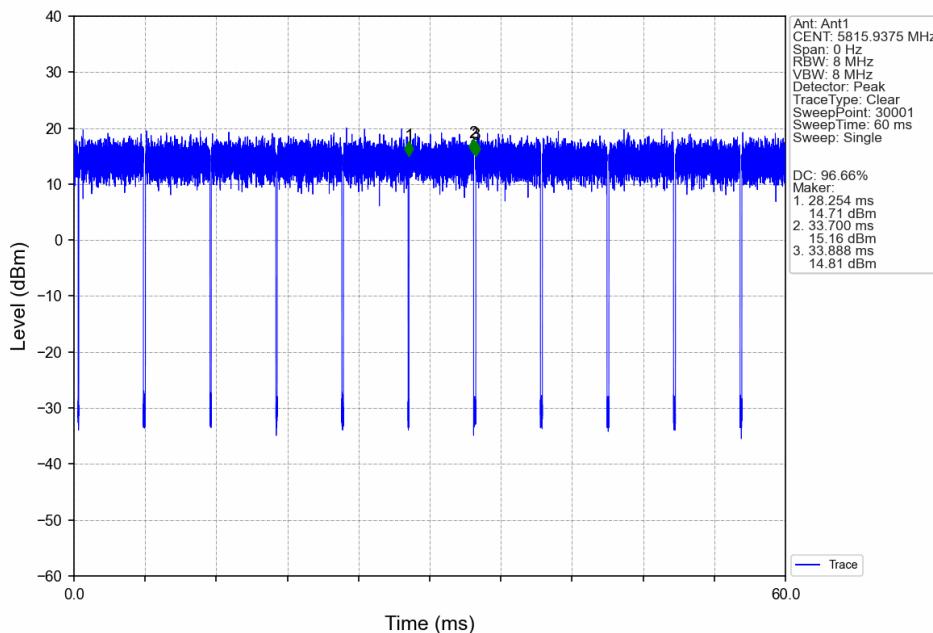
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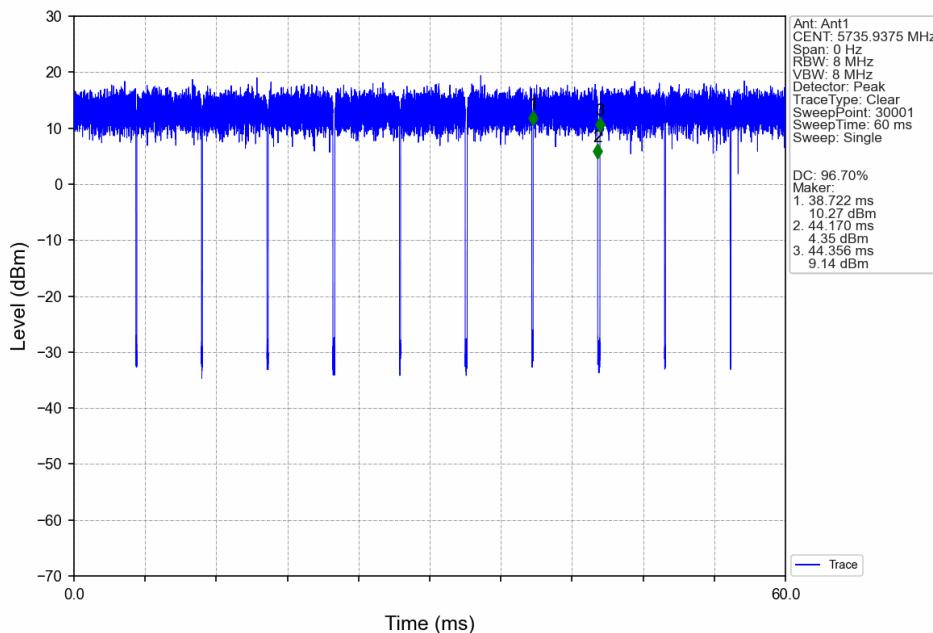
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### 802.11be(EHT80)\_HCH\_5855MHz\_SU\_ / \_Ant1\_NTNV



### 802.11be(EHT160)\_HCH\_5815MHz\_SU\_ / \_Ant1\_NTNV



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## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

| Mode              | TX Type | Frequency (MHz) | RU | RU Pos | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|-------------------|---------|-----------------|----|--------|-----|------------------------------|-------|---------|
|                   |         |                 |    |        |     | Result                       | Limit |         |
| 802.11a           | SISO    | 5865            | /  | /      | 1   | 18.071                       | /     | Pass    |
|                   |         | 5885            | /  | /      | 1   | 18.225                       | /     | Pass    |
|                   |         | 5845            | /  | /      | 1   | 18.031                       | /     | Pass    |
| 802.11n (HT20)    | MIMO    | 5865            | /  | /      | 1   | 18.805                       | /     | Pass    |
|                   |         | 5885            | /  | /      | 1   | 18.880                       | /     | Pass    |
|                   |         | 5845            | /  | /      | 1   | 18.898                       | /     | Pass    |
| 802.11n (HT40)    | MIMO    | 5875            | /  | /      | 1   | 38.078                       | /     | Pass    |
|                   |         | 5835            | /  | /      | 1   | 37.421                       | /     | Pass    |
| 802.11ac (VHT20)  | MIMO    | 5865            | /  | /      | 1   | 18.815                       | /     | Pass    |
|                   |         | 5885            | /  | /      | 1   | 18.906                       | /     | Pass    |
|                   |         | 5845            | /  | /      | 1   | 18.897                       | /     | Pass    |
| 802.11ac (VHT40)  | MIMO    | 5875            | /  | /      | 1   | 38.083                       | /     | Pass    |
|                   |         | 5835            | /  | /      | 1   | 37.588                       | /     | Pass    |
| 802.11ac (VHT80)  | MIMO    | 5855            | /  | /      | 1   | 77.278                       | /     | Pass    |
| 802.11ac (VHT160) | MIMO    | 5815            | /  | /      | 1   | 156.336                      | /     | Pass    |
| 802.11ax (HEW20)  | MIMO    | 5865            | SU | /      | 1   | 19.670                       | /     | Pass    |
|                   |         | 5885            | SU | /      | 1   | 19.611                       | /     | Pass    |
|                   |         | 5845            | SU | /      | 1   | 19.555                       | /     | Pass    |
| 802.11ax (HEW40)  | MIMO    | 5875            | SU | /      | 1   | 39.016                       | /     | Pass    |
|                   |         | 5835            | SU | /      | 1   | 38.517                       | /     | Pass    |
| 802.11ax (HEW80)  | MIMO    | 5855            | SU | /      | 1   | 78.373                       | /     | Pass    |
| 802.11ax (HEW160) | MIMO    | 5815            | SU | /      | 1   | 157.183                      | /     | Pass    |
| 802.11be (EHT20)  | MIMO    | 5865            | SU | /      | 1   | 19.554                       | /     | Pass    |
|                   |         | 5885            | SU | /      | 1   | 19.587                       | /     | Pass    |
|                   |         | 5845            | SU | /      | 1   | 19.563                       | /     | Pass    |
| 802.11be (EHT40)  | MIMO    | 5875            | SU | /      | 1   | 38.723                       | /     | Pass    |
|                   |         | 5835            | SU | /      | 1   | 38.647                       | /     | Pass    |
| 802.11be          | MIMO    | 5855            | SU | /      | 1   | 78.421                       | /     | Pass    |

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SZEMC-TRF-01 Rev. A/1

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|                      |      |      |    |   |   |         |   |      |
|----------------------|------|------|----|---|---|---------|---|------|
| (EHT80)              |      |      |    |   |   |         |   |      |
| 802.11be<br>(EHT160) | MIMO | 5815 | SU | / | 1 | 157.867 | / | Pass |

## 2.1.2 6dB BW

| Mode                 | TX Type | Frequency (MHz) | RU | RU Pos | ANT | 6dB Bandwidth (MHz) |       | Verdict |
|----------------------|---------|-----------------|----|--------|-----|---------------------|-------|---------|
|                      |         |                 |    |        |     | Result              | Limit |         |
| 802.11a              | SISO    | 5865            | /  | /      | 1   | 15.763              | >=0.5 | Pass    |
|                      |         | 5885            | /  | /      | 1   | 15.765              | >=0.5 | Pass    |
|                      |         | 5845            | /  | /      | 1   | 15.710              | >=0.5 | Pass    |
| 802.11n<br>(HT20)    | MIMO    | 5865            | /  | /      | 1   | 16.584              | >=0.5 | Pass    |
|                      |         | 5885            | /  | /      | 1   | 15.074              | >=0.5 | Pass    |
|                      |         | 5845            | /  | /      | 1   | 17.164              | >=0.5 | Pass    |
| 802.11n<br>(HT40)    | MIMO    | 5875            | /  | /      | 1   | 35.721              | >=0.5 | Pass    |
|                      |         | 5835            | /  | /      | 1   | 36.305              | >=0.5 | Pass    |
| 802.11ac<br>(VHT20)  | MIMO    | 5865            | /  | /      | 1   | 16.339              | >=0.5 | Pass    |
|                      |         | 5885            | /  | /      | 1   | 15.725              | >=0.5 | Pass    |
|                      |         | 5845            | /  | /      | 1   | 16.430              | >=0.5 | Pass    |
| 802.11ac<br>(VHT40)  | MIMO    | 5875            | /  | /      | 1   | 35.977              | >=0.5 | Pass    |
|                      |         | 5835            | /  | /      | 1   | 36.123              | >=0.5 | Pass    |
| 802.11ac<br>(VHT80)  | MIMO    | 5855            | /  | /      | 1   | 72.565              | >=0.5 | Pass    |
| 802.11ac<br>(VHT160) | MIMO    | 5815            | /  | /      | 1   | 142.813             | >=0.5 | Pass    |
| 802.11ax<br>(HEW20)  | MIMO    | 5865            | SU | /      | 1   | 16.494              | >=0.5 | Pass    |
|                      |         | 5885            | SU | /      | 1   | 18.628              | >=0.5 | Pass    |
|                      |         | 5845            | SU | /      | 1   | 18.459              | >=0.5 | Pass    |
| 802.11ax<br>(HEW40)  | MIMO    | 5875            | SU | /      | 1   | 36.954              | >=0.5 | Pass    |
|                      |         | 5835            | SU | /      | 1   | 37.741              | >=0.5 | Pass    |
| 802.11ax<br>(HEW80)  | MIMO    | 5855            | SU | /      | 1   | 76.288              | >=0.5 | Pass    |
| 802.11ax<br>(HEW160) | MIMO    | 5815            | SU | /      | 1   | 143.978             | >=0.5 | Pass    |
| 802.11be<br>(EHT20)  | MIMO    | 5865            | SU | /      | 1   | 18.209              | >=0.5 | Pass    |
|                      |         | 5885            | SU | /      | 1   | 18.035              | >=0.5 | Pass    |
|                      |         | 5845            | SU | /      | 1   | 17.989              | >=0.5 | Pass    |
| 802.11be<br>(EHT40)  | MIMO    | 5875            | SU | /      | 1   | 36.621              | >=0.5 | Pass    |
|                      |         | 5835            | SU | /      | 1   | 37.642              | >=0.5 | Pass    |
| 802.11be<br>(EHT80)  | MIMO    | 5855            | SU | /      | 1   | 72.716              | >=0.5 | Pass    |
| 802.11be             | MIMO    | 5815            | SU | /      | 1   | 143.820             | >=0.5 | Pass    |

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200457605

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(EHT160)



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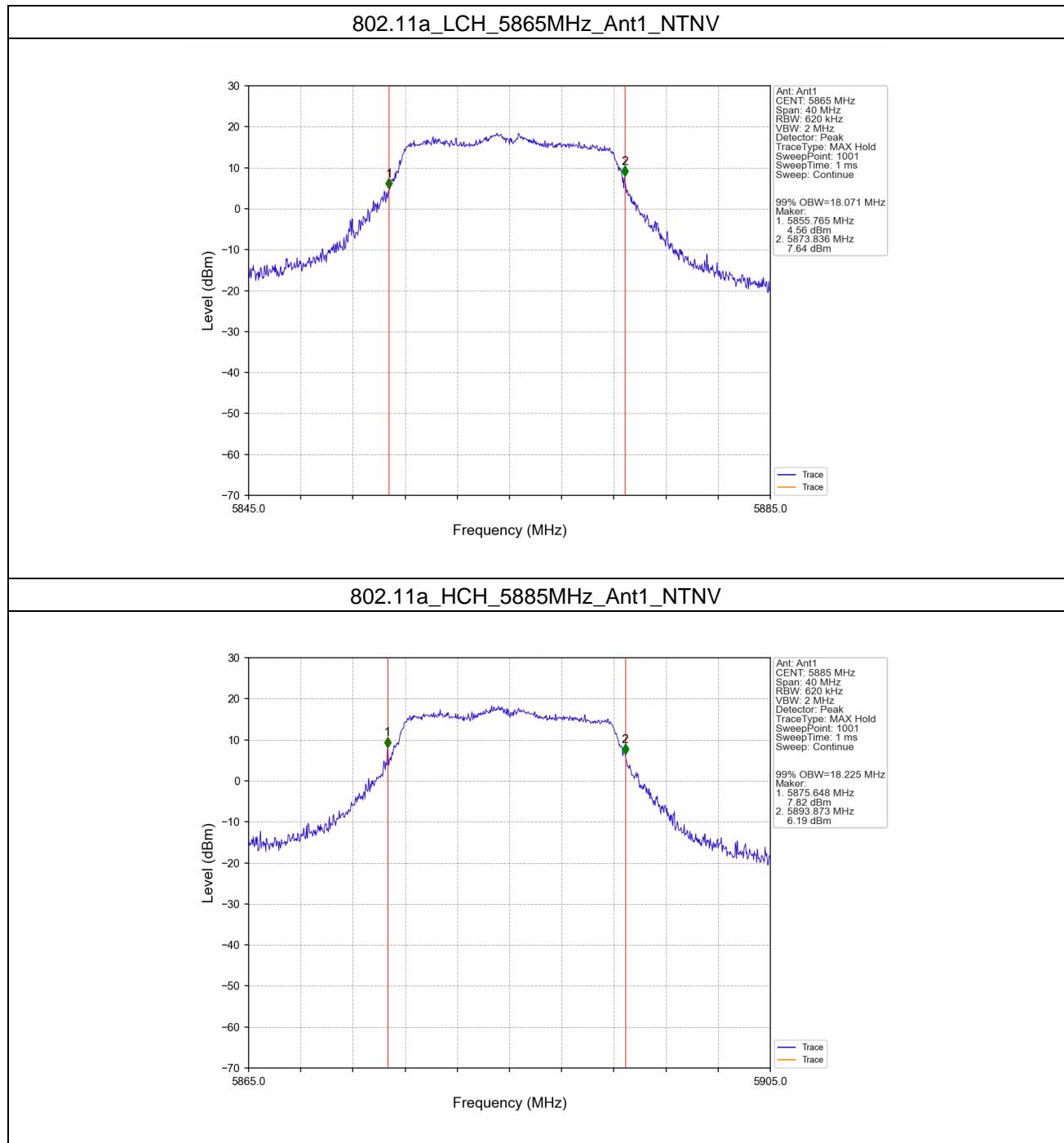
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## 2.2 Test Graph

### 2.2.1 OBW



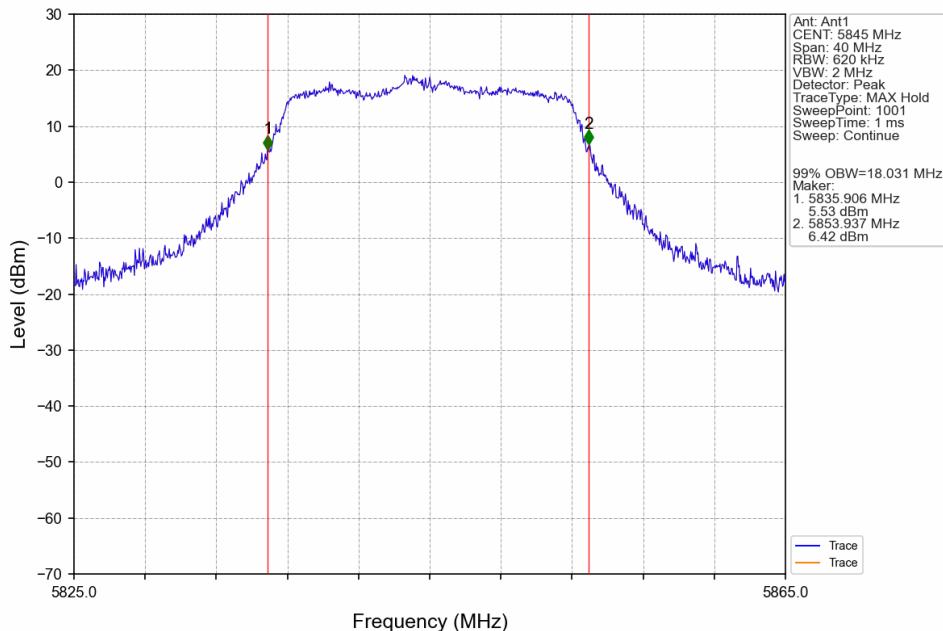
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### 802.11a\_HCH\_5845MHz\_Ant1\_NTNV

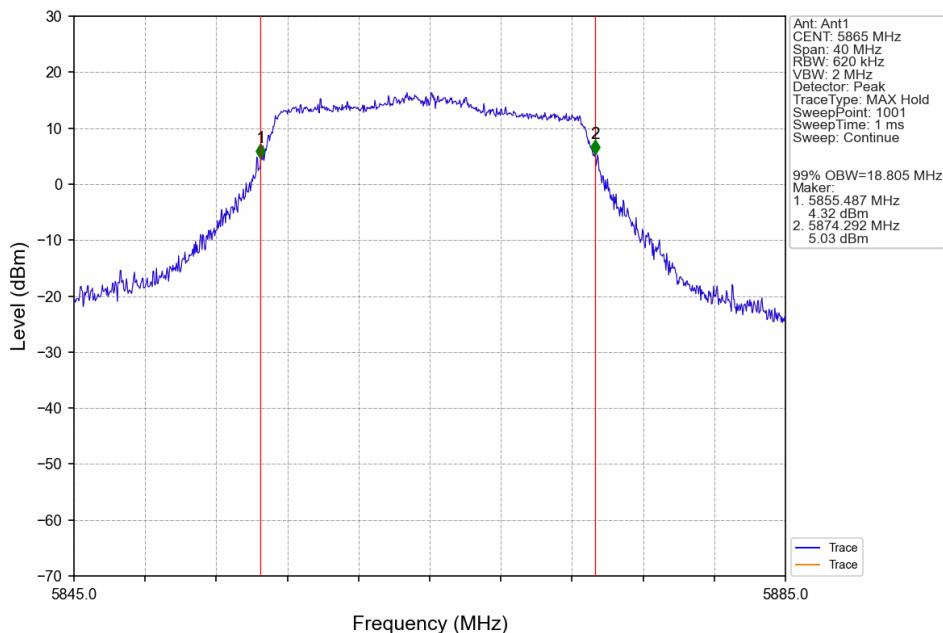
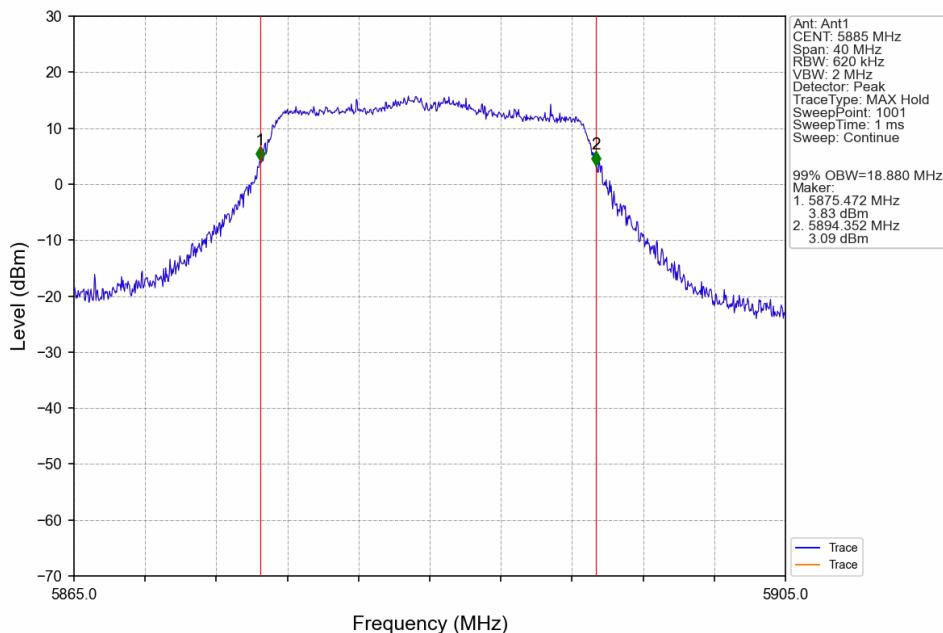


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**802.11n(HT20)\_LCH\_5865MHz\_Ant1\_NTNV****802.11n(HT20)\_HCH\_5885MHz\_Ant1\_NTNV**

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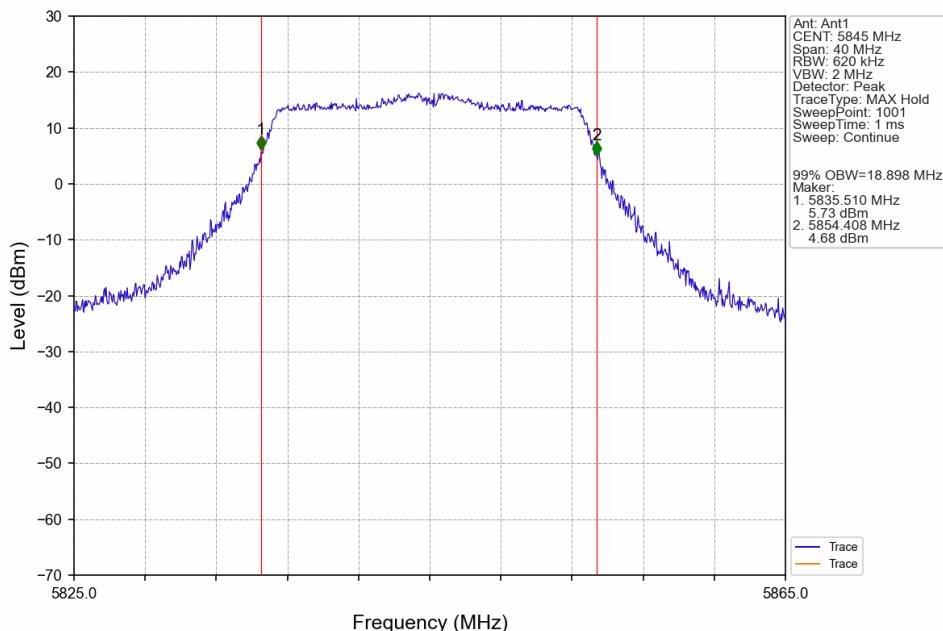
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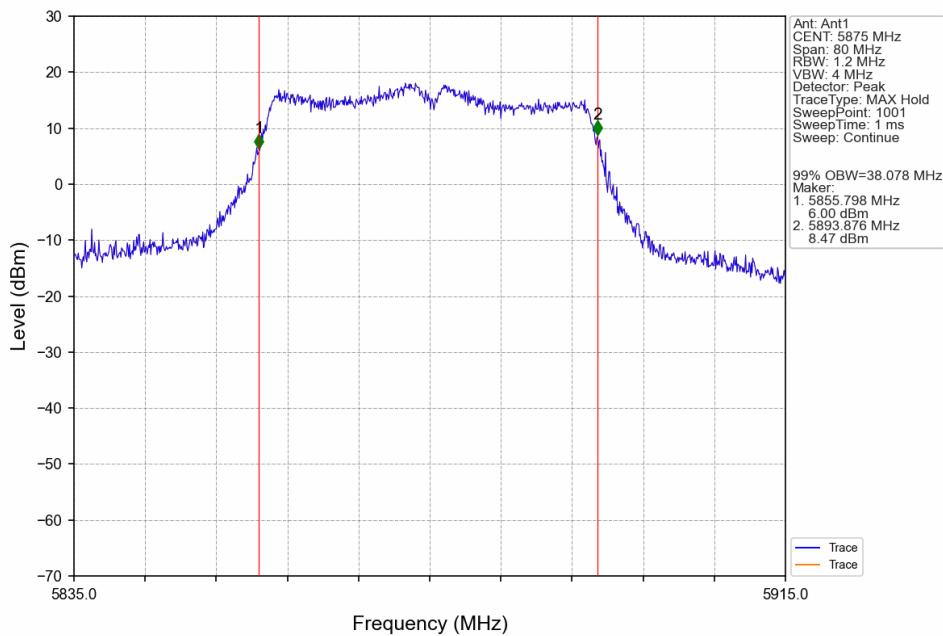
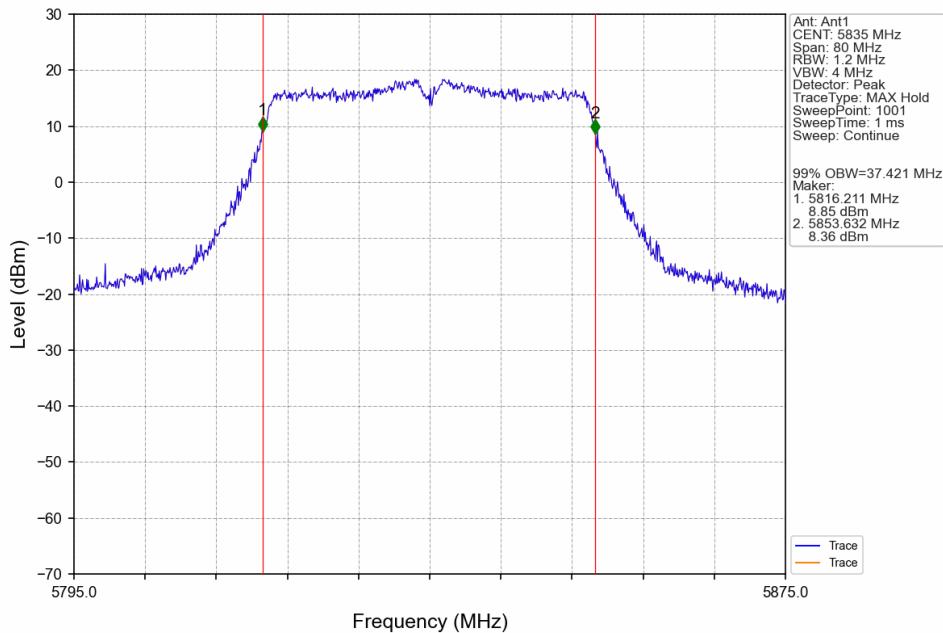


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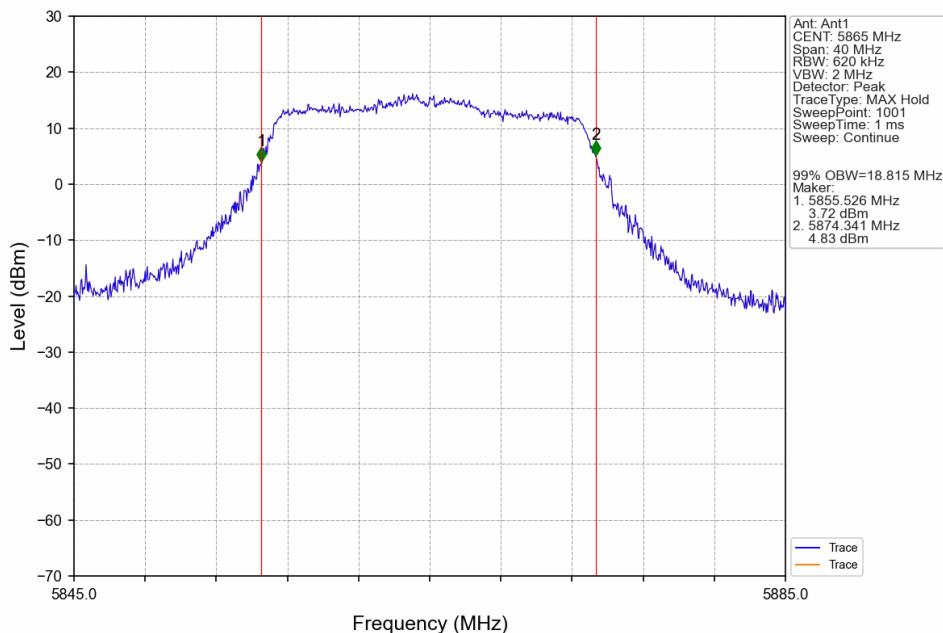
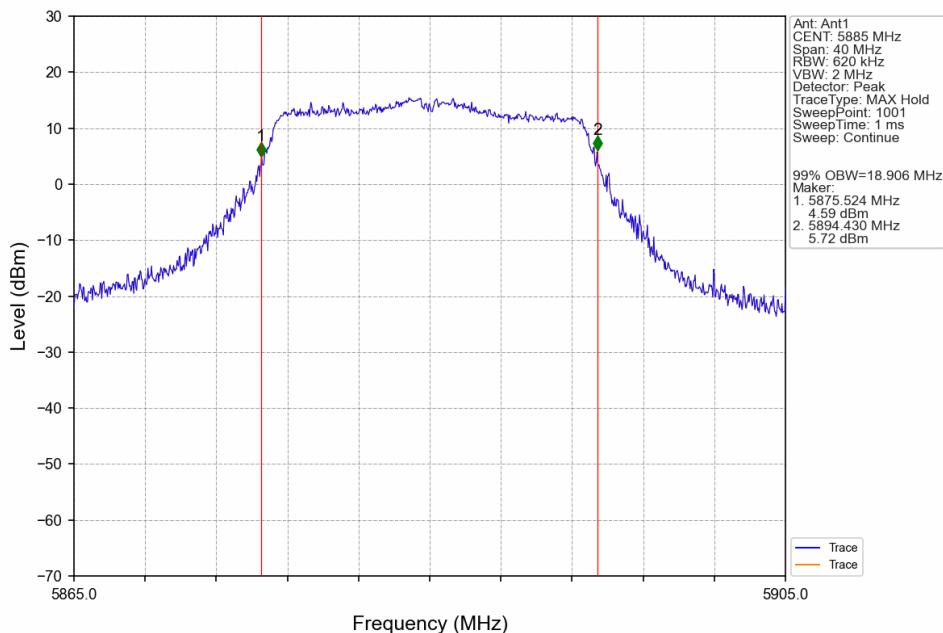
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**802.11n(HT40)\_MCH\_5875MHz\_Ant1\_NTNV****802.11n(HT40)\_HCH\_5835MHz\_Ant1\_NTNV**

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**802.11ac(VHT20)\_LCH\_5865MHz\_Ant1\_NTNV****802.11ac(VHT20)\_HCH\_5885MHz\_Ant1\_NTNV**

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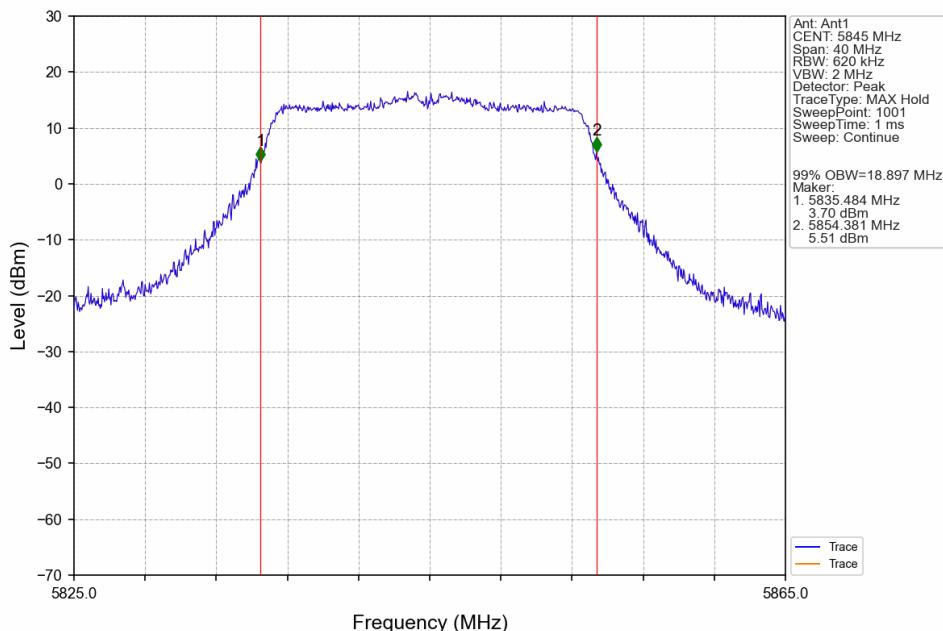
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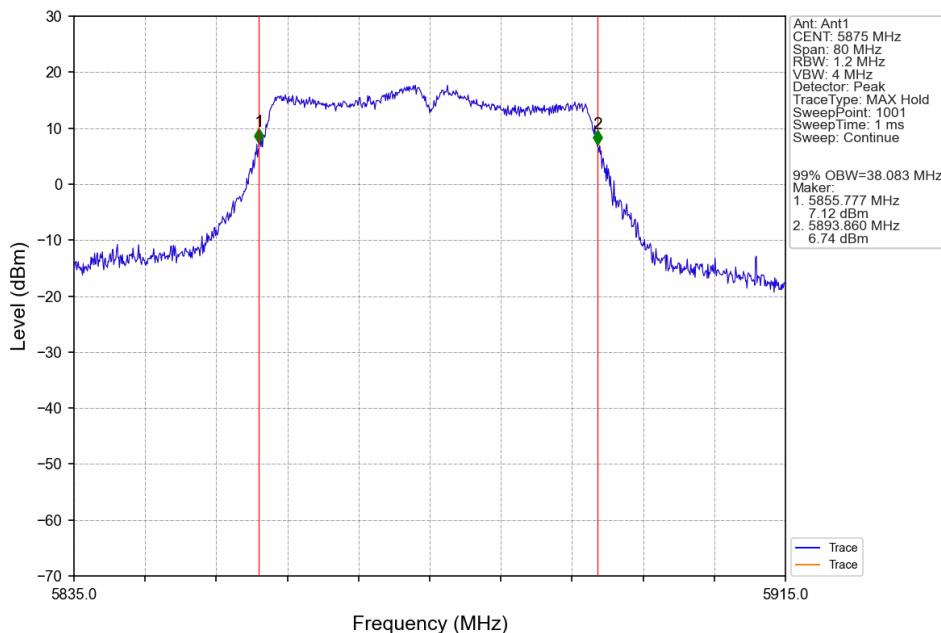
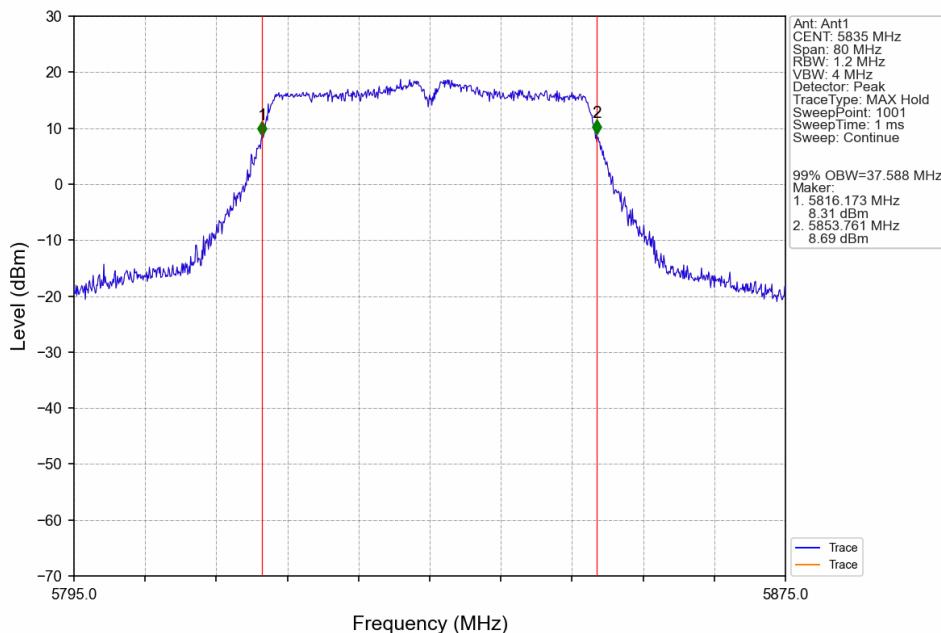


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