

Report No.: SEWA2301000010RG01
 Rev.: 01
 Page: 1 of 442

TEST REPORT

Application No.: SEWA2301000010RG
Applicant: Quectel Wireless Solutions Co., Ltd.
Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer: Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
EUT Description: Wi-Fi & Bluetooth Module
Model No.: FC65E
Trade Mark: Quectel
FCC ID: XMR2023FC65E
Standards: FCC 47 CFR Part 15, Subpart E
Date of Receipt: 2023/09/04
Date of Test: 2023/09/20 to 2023/10/24
Date of Issue: 2023/10/26

| | |
|----------------------|---------------|
| Test Result : | PASS * |
|----------------------|---------------|

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

Authorized Signature:

Well Wei
 Wireless Laboratory Manager



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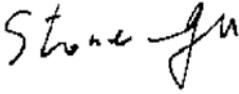
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1 Version

| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2023/10/26 | | Original |

| | | |
|--------------------|--|---|
| Prepared By | |  <hr/> (Ives Cheng) / Test Engineer |
| Checked By | |  <hr/> (Stone Gu) / Reviewer |



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2 Test Summary

| Test Item | FCC Rule No. | Test Requirements | Test Result | Result |
|---|--------------------------------|---|-------------|--------------------|
| Antenna Requirement | 15.203/15.407(a) | -- | Clause 4.1 | PASS |
| AC Power Line Conducted Emissions | 15.407(b)(8) | < FCC 15.207 limits | Clause 4.2 | PASS |
| Duty Cycle | -- | No limit. | Clause 4.3 | For Report Purpose |
| Maximum e.i.r.p. | 15.407(a)(8) | < 24dBm over the frequency band of Operation, e.i.r.p. | Clause 4.4 | PASS |
| 26dB Emission Bandwidth | 2.1049 | No limit. | Clause 4.5 | For Report Purpose |
| 99% Occupied Bandwidth | 15.407(a)(10) | The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz. | Clause 4.6 | PASS |
| Maximum Power Spectral Density | 15.407(a)(8) | < -1dBm/MHz e.i.r.p. | Clause 4.7 | PASS |
| In-Band Emissions | 15.407(b)(6) | EUT must meet the limits detailed in 15.407(b)(6) | Clause 4.8 | PASS |
| Contention Based Protocol | 15.407(d)(6) | EUT must detect AWGN signal with 90% (or better) certainty | Clause 4.9 | PASS |
| Radiated Spurious Emissions | 15.407(b)(5) 15.205, 15.209 | < -27dBm/MHz e.i.r.p. outside of the 5.925 - 7.125GHz band | Clause 4.10 | PASS |
| Restricted Bands around fundamental frequency | 15.407(b)(5) 15.205, 15.209 | Emissions in restricted bands must meet the radiated limits detailed in 15.209 | Clause 4.11 | PASS |



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3 General Information

3.1 Details of Client

| | |
|--------------------------|---|
| Applicant: | Quectel Wireless Solutions Co., Ltd. |
| Address of Applicant: | Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233 |
| Manufacturer: | Quectel Wireless Solutions Co., Ltd. |
| Address of Manufacturer: | Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233 |

3.2 Test Location

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

3.3 Test Facility

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

| |
|--|
| <ul style="list-style-type: none"> A2LA (Certificate No. 6336.01) SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01. Innovation, Science and Economic Development Canada SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory. CAB identifier: CN0120. IC#: 27594. FCC –Designation Number: CN1312 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory. Designation Number: CN1312. Test Firm Registration Number: 717327 |
|--|



3.4 General Description of EUT

| | | |
|----------------------------------|--|--------------------------|
| EUT Description: | Wi-Fi & Bluetooth Module | |
| Model No.: | FC65E | |
| Trade Mark: | Quectel | |
| Hardware Version: | R1.0 | |
| Software Version: | / | |
| Power Supply: | DC 2V | |
| IMEI: | RF Conducted | 867629050178860 |
| | RSE & AC power line | 867629050180841 |
| IEEE 802.11 WLAN Mode Supported: | <input checked="" type="checkbox"/> 802.11a (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11ax (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ax (40 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ax (80 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ax (160 MHz channel bandwidth) | |
| Operation Frequency: | IEEE 802.11 a/ax(HE20/40/80/160): 5925 MHz ~ 6425 MHz IEEE 802.11 a/ax(HE20/40/80/160): 6425 MHz ~ 6525 MHz IEEE 802.11 a/ax(HE20/40/80/160): 6525 MHz ~ 6875 MHz IEEE 802.11 a/ax(HE20/40/80/160): 6875 MHz ~ 7125 MHz | |
| Type of Modulation: | OFDM/OFDMA | |
| FCC Classification: | 6GHz Low Power Indoor Client (6XD) | |
| Antenna Type: | <input checked="" type="checkbox"/> External, <input type="checkbox"/> Integrated | |
| Smart System: | <input type="checkbox"/> SISO | 802.11a/n/ac/ax |
| | <input checked="" type="checkbox"/> MIMO | 802.11n/ac/ax: 2Tx & 2Rx |
| | <input checked="" type="checkbox"/> Diversity | 802.11a: 2Tx & 2Rx |
| Antenna Gain: | 5925 MHz ~ 6425 MHz: -0.24dBi (Ant0); -0.24dBi (Ant1); 6425 MHz ~ 6525 MHz: -0.24dBi (Ant0); -0.24dBi (Ant1); 6525 MHz ~ 6875 MHz: -0.24dBi (Ant0); -0.24dBi (Ant1); 6875 MHz ~ 7125 MHz: -0.24dBi (Ant0); -0.24dBi (Ant1); | |
| | Note: The antenna gain are derived from the gain information report provided by the manufacturer. | |
| RF Cable: | 2.0dB | |
| Remark: | 1. As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information. 2. 802.11ax support OFDMA full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) test output power, the full RU power > partial RU, therefore the full RU perform full test to cover partial RU except for PSD/ Duty cycle/BE. | |



Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

| Frequency range over which device operates | Number of Measurement Frequencies Required | Location of Measurement Frequency in Band of Operation |
|--|--|--|
| 1 MHz or less | 1 | centre |
| 1 MHz to 10 MHz | 2 | 1 near high end, 1 near low end |
| Greater than 10 MHz | 3 | 1 near high end, 1 near centre, 1 near low end |

For UNII-5:

| Mode | Channel | Frequency(MHz) |
|-----------------------|---------|----------------|
| IEEE 802.11a/ax 20MHz | 1 | 5955 |
| | 45 | 6175 |
| | 93 | 6415 |
| IEEE 802.11ax 40MHz | 3 | 5965 |
| | 43 | 6165 |
| | 91 | 6405 |
| IEEE 802.11ax 80MHz | 7 | 5985 |
| | 39 | 6145 |
| IEEE 802.11ax160MHz | 15 | 6025 |
| | 47 | 6185 |
| | 79 | 6345 |

For UNII-6:

| Mode | Channel | Frequency(MHz) |
|-----------------------|---------|----------------|
| IEEE 802.11a/ax 20MHz | 97 | 6435 |
| | 105 | 6475 |
| | 113 | 6515 |
| IEEE 802.11ax 40MHz | 99 | 6445 |
| | 107 | 6485 |
| | 115 | 6525 |
| IEEE 802.11ax 80MHz | 87 | 6385 |
| | 103 | 6465 |
| IEEE 802.11ax160MHz | 111 | 6505 |



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| For UNII-7: | | |
|-----------------------|---------|----------------|
| Mode | Channel | Frequency(MHz) |
| IEEE 802.11a/ax 20MHz | 117 | 6535 |
| | 149 | 6695 |
| | 181 | 6855 |
| | 185 | 6875 |
| IEEE 802.11ax 40MHz | 123 | 6565 |
| | 147 | 6685 |
| | 179 | 6845 |
| IEEE 802.11ax 80MHz | 119 | 6545 |
| | 135 | 6625 |
| | 151 | 6705 |
| | 167 | 6785 |
| | 183 | 6865 |
| IEEE 802.11ax160MHz | 143 | 6665 |
| | 175 | 6825 |

| For UNII-8: | | |
|-----------------------|---------|----------------|
| Mode | Channel | Frequency(MHz) |
| IEEE 802.11a/ax 20MHz | 189 | 6895 |
| | 209 | 6995 |
| | 233 | 7115 |
| IEEE 802.11ax 40MHz | 187 | 6885 |
| | 195 | 6925 |
| | 203 | 6965 |
| | 227 | 7085 |
| IEEE 802.11ax 80MHz | 199 | 6945 |
| | 215 | 7025 |
| IEEE 802.11ax160MHz | 207 | 6985 |



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3.5 Test Environment and Mode

| | | |
|---|--|------------|
| Environment Parameter | 101.0 kPa Selected Values During Tests | |
| Relative Humidity | 44-46 % RH Ambient | |
| Value | Temperature(°C) | Voltage(V) |
| NTNV | 22~23 | 2 |
| Remark: NV: Normal Voltage NT: Normal Temperature | | |

3.6 Description of Support Units

| Description | Manufacturer | Model No. |
|--|---|-------------------|
| Mother board | QUECTEL | 5G-EVB Q1-A7138 |
| Adapter | Shenzhen Keyu Power Supply Techology Co.,Ltd | KA1801A-0503000DE |
| Remark: all above the information of table are provided by client. | | |

3.7 Worst-case configuration and mode

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

| Modulation Type | SISO - Data Rate | CDD/MIMO - Data Rate |
|-------------------|------------------|----------------------|
| 802.11a | / | 12 Mbps |
| 802.11ax (HE 20) | / | MCS0 (16 Mbps) |
| 802.11ax (HE 40) | / | MCS0 (32 Mbps) |
| 802.11ax (HE 80) | / | MCS0 (68 Mbps) |
| 802.11ax (HE 160) | / | MCS0 (136 Mbps) |



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4 Test results and Measurement Data

4.1 Antenna Requirement

| | |
|---|-------------------------------|
| Standard requirement: | 47 CFR Part 15 Section 15.203 |
| <p>The antenna is External Antenna and no consideration of replacement. The best case gain of the antenna is 5925 MHz ~ 6425 MHz: -0.24dBi (Ant0); -0.24dBi (Ant1);* 6425 MHz ~ 6525 MHz: -0.24dBi (Ant0); -0.24dBi (Ant1);* 6525 MHz ~ 6875 MHz: -0.24dBi (Ant0); -0.24dBi (Ant1);* 6875 MHz ~ 7125 MHz: -0.24dBi (Ant0); -0.24dBi (Ant1);*</p> <p><i>*Note:</i> The antenna gain are derived from the gain information report provided by the manufacturer.</p> <p><i>Remark:</i> As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p> | |



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Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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

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

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

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

The EUT supports CDD System.

All antennas have the same gain:

| Operation Frequency | ANT Gain7 (dBi) | ANT Gain9 (dBi) | Directional gain For Power (dBi) | Directional gain For PSD (dBi) |
|----------------------|-----------------|-----------------|----------------------------------|--------------------------------|
| 5925 MHz to 6425 MHz | -0.24 | -0.24 | -0.24 | 2.77 |
| 6425 MHz to 6525 MHz | -0.24 | -0.24 | -0.24 | 2.77 |
| 6525 MHz to 6875 MHz | -0.24 | -0.24 | -0.24 | 2.77 |
| 6875 MHz to 7125 MHz | -0.24 | -0.24 | -0.24 | 2.77 |



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4.2 AC Power Line Conducted Emissions

| | | | |
|--|--|--------------|-----------|
| Test Requirement: | 47 CFR Part 15 Section 15.407(b) | | |
| Test Method: | ANSI C63.10-2020 Section 6.2 | | |
| Test Frequency Range: | 150kHz to 30MHz | | |
| Receiver Setup: | RBW = 9kHz, VBW = 30kHz | | |
| Limit: | Frequency range (MHz) | Limit (dBuV) | |
| | | Quasi-peak | Average |
| | 0.15-0.5 | 66 to 56* | 56 to 46* |
| | 0.5-5 | 56 | 46 |
| | 5-30 | 60 | 50 |
| * Decreases with the logarithm of the frequency. | | | |
| Test Procedure: | <ol style="list-style-type: none"> 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 50Ω/50μH + 5Ω 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 C63.10-2020 on conducted measurement. | | |



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| | |
|-------------------------------|---|
| <p>Test Setup:</p> | |
| <p>Exploratory Test Mode:</p> | <p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.</p> |
| <p>Final Test Mode:</p> | <p>Refer to section 3.7 for details. Only the worst case is recorded in the report.</p> |
| <p>Instruments Used:</p> | <p>Refer to section 6 for details</p> |
| <p>Test Results:</p> | <p>Pass</p> |



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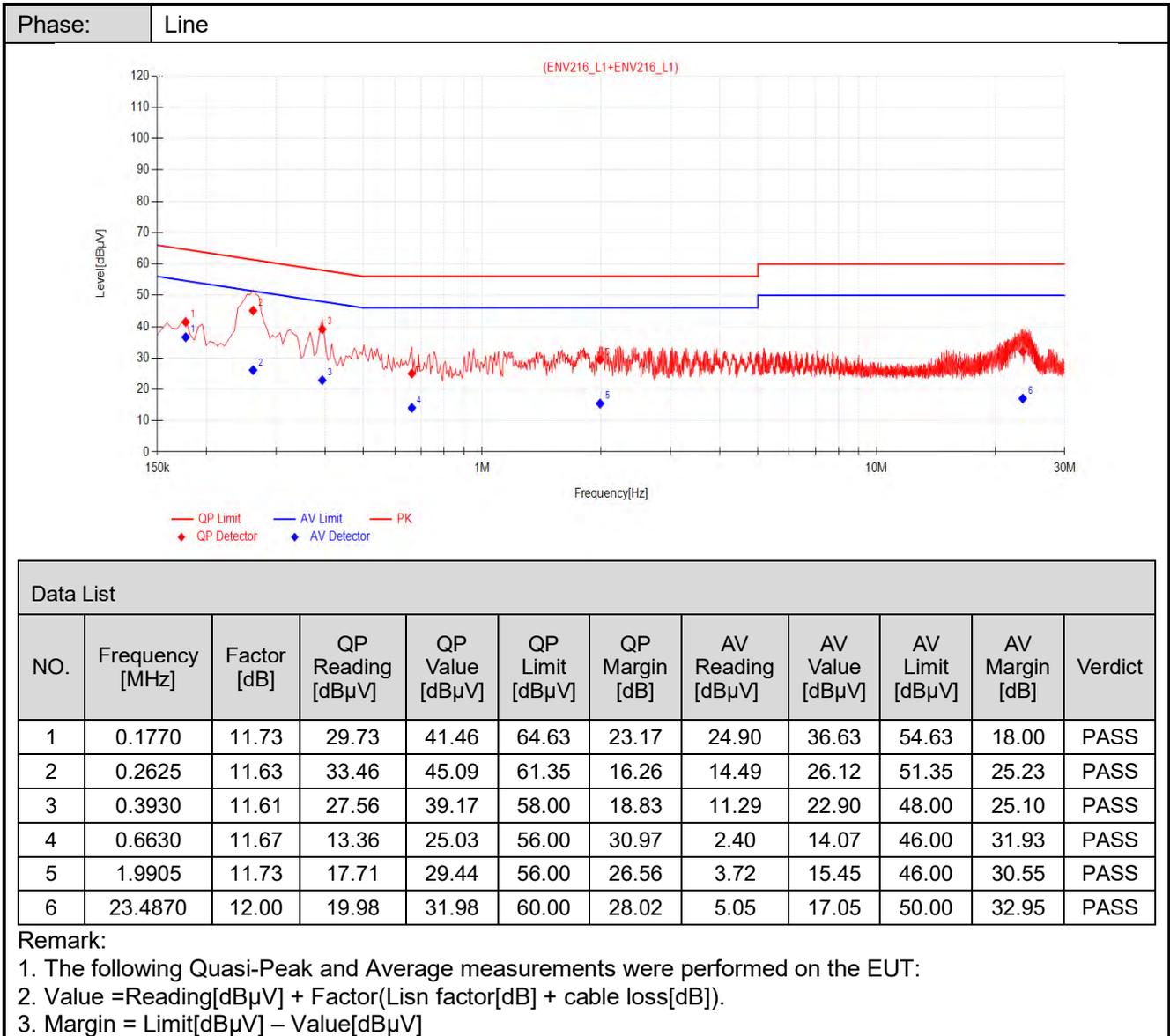
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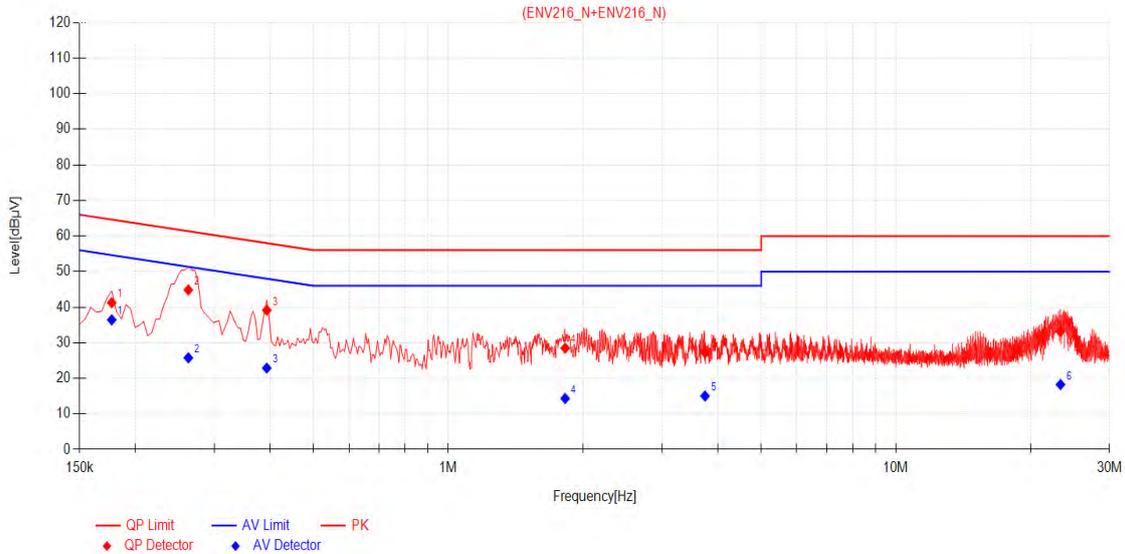
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Phase: Neutral



| Data List | | | | | | | | | | | |
|-----------|-----------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| NO. | Frequency [MHz] | Factor [dB] | QP Reading [dBµV] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Reading [dBµV] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Verdict |
| 1 | 0.1770 | 11.73 | 29.52 | 41.25 | 64.63 | 23.38 | 24.70 | 36.43 | 54.63 | 18.20 | PASS |
| 2 | 0.2625 | 11.63 | 33.21 | 44.84 | 61.35 | 16.51 | 14.12 | 25.75 | 51.35 | 25.60 | PASS |
| 3 | 0.3930 | 11.61 | 27.52 | 39.13 | 58.00 | 18.87 | 11.26 | 22.87 | 48.00 | 25.13 | PASS |
| 4 | 1.8240 | 11.73 | 16.74 | 28.47 | 56.00 | 27.53 | 2.59 | 14.32 | 46.00 | 31.68 | PASS |
| 5 | 3.7455 | 11.76 | 15.44 | 27.20 | 56.00 | 28.80 | 3.25 | 15.01 | 46.00 | 30.99 | PASS |
| 6 | 23.3205 | 12.00 | 21.23 | 33.23 | 60.00 | 26.77 | 6.23 | 18.23 | 50.00 | 31.77 | PASS |

Remark:

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



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4.3 Duty Cycle

| | |
|---|---|
| Test Requirement: | ANSI C63.10-2020 Section 12.2 |
| Test Method: | ANSI C63.10-2020 Section 12.2 |
| Test Setup: | |
| Instruments Used: | Refer to section 6 for details |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates |
| Final Test Mode: | Refer to section 3.7 for details. |
| Limit: | No restriction limits |
| Test Results: | For report purpose |
| The detailed test data see: Appendix | |

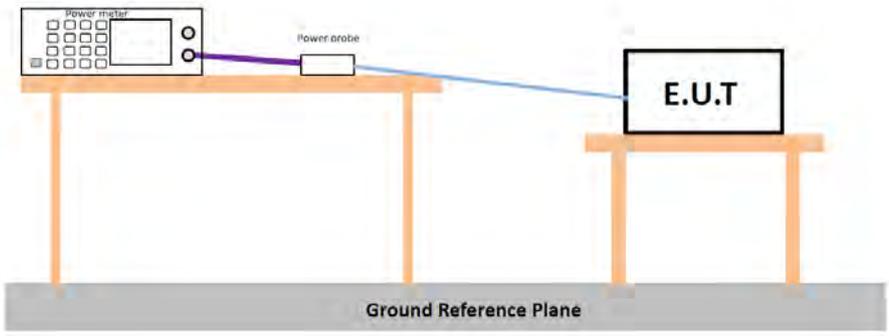


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4.4 Maximum e.i.r.p.

| | |
|---|---|
| Test Requirement: | 47 CFR Part 15 Section 15.407(a) |
| Test Method: | ANSI C63.10-2020 Section 12.4.3.2 |
| Test Setup: |  <p>* Test with power meter (Detector function: Average)</p> |
| Test Instruments: | Refer to section 6 for details |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates |
| Final Test Mode: | Refer to section 3.7 for details. |
| Limit: | For client devices operating under the control of an indoor access point in the 5.925-7.125GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm. |
| Test Results: | Pass |
| The detailed test data see: Appendix | |



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4.5 26dB Emission Bandwidth

| | |
|---|---|
| Test Requirement: | 47 CFR Part 15 Section 15.407(a), KDB 789033 D02 |
| Test Method: | ANSI C63.10-2020 Section 12.5.2 |
| Test Setup: | |
| Instruments Used: | Refer to section 6 for details |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates |
| Final Test Mode: | Refer to section 3.7 for details. |
| Limit: | No restriction limits |
| Test Results: | For Report Purpose |
| The detailed test data see: Appendix | |



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4.6 99% Occupied Bandwidth

| | |
|---|---|
| Test Requirement: | 15.407(a)(10) |
| Test Method: | ANSI C63.10-2020 Section 12.5.3 |
| Test Setup: | |
| Instruments Used: | Refer to section 6 for details |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates |
| Final Test Mode: | Refer to section 3.7 for details. |
| Limit: | The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz. |
| Test Results: | PASS |
| The detailed test data see: Appendix | |



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4.7 Power Spectral Density

| | |
|---|---|
| Test Requirement: | 47 CFR Part 15 Section 15.407(a) |
| Test Method: | ANSI C63.10-2020 Section 12.6 KDB 789033 D02 v02r01, Section F. |
| Test Setup: | |
| Instruments Used: | Refer to section 6 for details |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates |
| Final Test Mode: | Refer to section 3.7 for details. |
| Limit: | For client devices operating under the control of an indoor access point in the 5.925-7.125GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band. |
| Test Results: | Pass |
| The detailed test data see: Appendix | |



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4.8 In-Band Emissions

| | |
|---|---|
| Test Requirement: | 47 CFR Part 15 Section 15.407(b)(6) |
| Test Method: | KDB 987594 D02 U-NII 6GHz EMC Measurement v01 |
| Test Setup: | |
| Instruments Used: | Refer to section 6 for details |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates |
| Final Test Mode: | Refer to section 3.7 for details. Only the worst case is recorded in the report. |
| Limit: | For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB. |
| Test Results: | Pass |
| The detailed test data see: Appendix | |



4.9 Contention Based Protocol

| | |
|------------------------|--|
| Test Requirement: | 47 CFR Part 15 Section 15.407(d) |
| Test Method: | KDB 987594 D02 U-NII 6GHz EMC Measurement v01 |
| Test Setup: | |
| Instruments Used: | Refer to section 6 for details |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates |
| Test Procedure: | <ol style="list-style-type: none"> 1) Configure the EUT to transmit with a constant duty cycle. 2) Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth. 3) Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver. 4) Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two. 5) Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10MHz AWGN signal relative to the EUT's channel bandwidth and center frequency. 6) Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2. 7) Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1. 8) Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting. 9) (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty. 10) Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process. |



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| | |
|---|---|
| Limit: | <p>Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.</p> |
| Test Results: | Pass |
| The detailed test data see: Appendix | |



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4.10 Radiated Spurious Emissions

| | |
|-------------------|---|
| Test Requirement: | 47 CFR Part 15 Section 15.205/15.209/15.407(b)(5) |
| Test Method: | ANSI C63.10-2020 Section 6.4 / 6.5 / 6.6 |
| Test Site: | Measurement Distance: 3m or 10m (Semi-Anechoic Chamber) |
| Test frequency: | 9kHz ~ 40GHz(or 10 Harmonic) |

Test Setup:

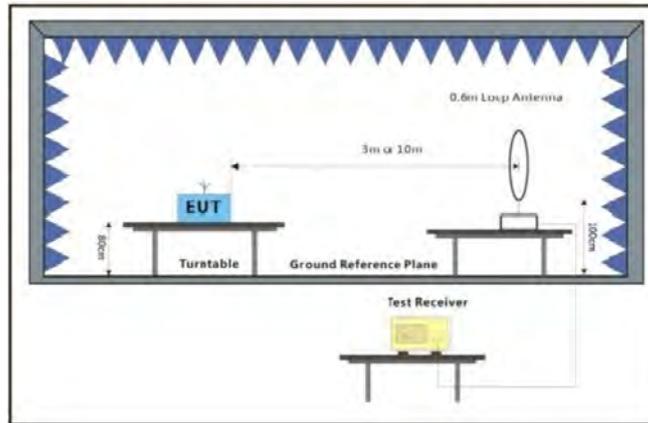


Figure 1. 9kHz to 30MHz

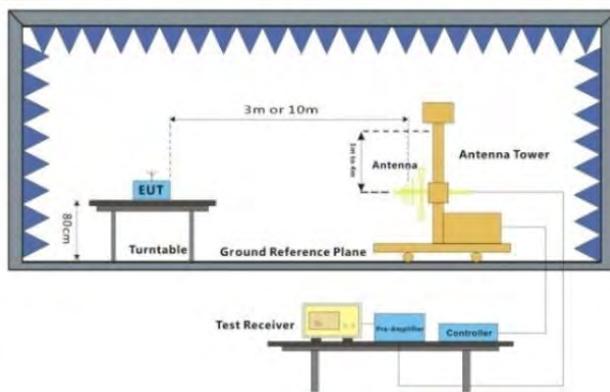


Figure 1. 30MHz to 1GHz

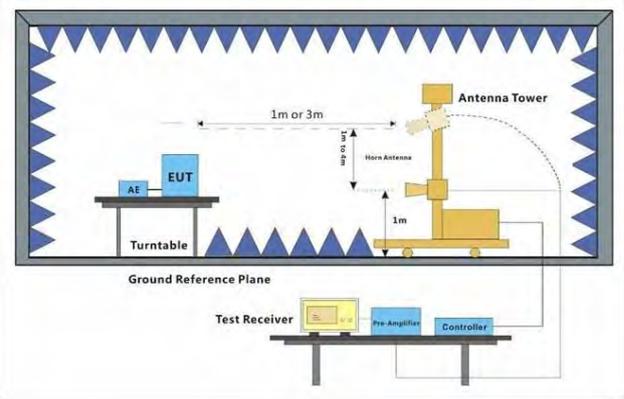


Figure 2. Above 1 GHz

| | |
|-----------------|--|
| Test Procedure: | <ol style="list-style-type: none"> For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz). The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and |
|-----------------|--|



| | |
|-------------------------------|--|
| | <p>vertical polarizations of the antenna are set to make the measurement.</p> <p>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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the outermost channels.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported</p> <p>k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54$ dB.</p> |
| <p>Test Configuration:</p> | <p>Measurements below 30MHz</p> <ul style="list-style-type: none"> • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. |
| <p>Exploratory Test Mode:</p> | <p>Transmitting with all kind of modulations, data rates.</p> |
| <p>Final Test Mode:</p> | <p>Refer to section 3.7 for details.</p> <p>For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.</p> |



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| | |
|---|--------------------------------|
| Instruments Used: | Refer to section 6 for details |
| Test Results: | Pass |
| The detailed test data see: Appendix | |



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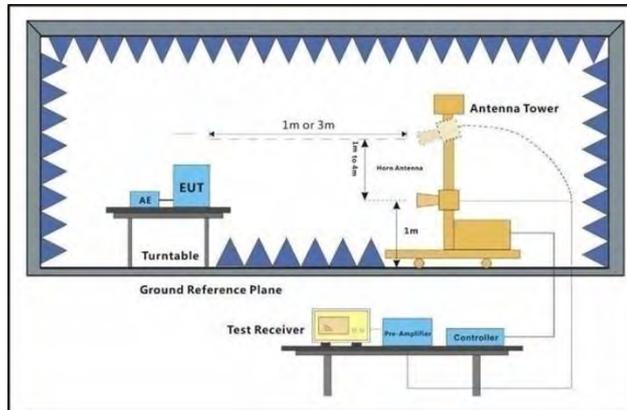
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4.11 Restricted bands around fundamental frequency

| | | | |
|-------------------|---|----------------|---------------|
| Test Requirement: | 47 CFR Part 15 Section 15.205/15.209/15.407(b)(5) | | |
| Test Method: | ANSI C63.10-2020 Section 12.7 | | |
| Test Site: | Measurement Distance: 3m (Semi-Anechoic Chamber) | | |
| Limit: | Frequency | Limit (dBuV/m) | Remark |
| | 30MHz-88MHz | 40.0 | Quasi-peak |
| | 88MHz-216MHz | 43.5 | Quasi-peak |
| | 216MHz-960MHz | 46.0 | Quasi-peak |
| | 960MHz-1GHz | 54.0 | Quasi-peak |
| | Above 1GHz | 54.0 | Average Value |
| | | 74.0 | Peak Value |

Test Setup:



Test Procedure:

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
- Test the EUT in the outermost channels.



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| | |
|---|--|
| | <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> |
| Test Configuration: | <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates. |
| Final Test Mode: | Refer to section 3.7 for details. |
| Instruments Used: | Refer to section 6 for details |
| Test Results: | Pass |
| The detailed test data see: Appendix | |



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

| No. | Item | Measurement Uncertainty |
|-----|-------------------------------|---------------------------|
| 1 | Total RF power, conducted | ±0.54dB |
| 2 | RF power density, conducted | ±1.03dB |
| 3 | Spurious emissions, conducted | ±0.54dB |
| 4 | Radio Frequency | ±1.0 % |
| 5 | Duty Cycle | ±0.37% |
| 6 | Occupied Bandwidth | ±1.0 % |
| 7 | Conduction Emission | ± 2.9dB (150kHz to 30MHz) |
| 8 | Radiated Emission(966-01) | ± 3.13dB (9k -30MHz) |
| | | ± 4.8dB (30M -1GHz) |
| | | ± 4.8dB (1GHz to 18GHz) |
| | | ± 4.8dB (Above 18GHz) |

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

| RF Test Equipment | | | | | |
|--------------------------------|---------------|-------------------------------|---------------|------------------------|---------------------------|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. date (yyyy/mm/dd) | Cal.Due date (yyyy/mm/dd) |
| Shielding Room | Brilliant-emc | N/A | SUWI-04-01-06 | 2021/05/08 | 2024/05/07 |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-07 | 2023/02/06 | 2024/02/05 |
| Measurement Software | Tonscend | JS1120-3 Test System V 3.3.20 | SUWI-02-09-09 | NCR | NCR |
| Signal Analyzer | ROHDE&SCHWARZ | FSW43 | SUWI-01-02-04 | 2023/05/11 | 2024/05/10 |
| Temperature Chamber | ESPEC | SU-242 | SUWI-01-13-01 | 2023/02/06 | 2024/02/05 |
| DC Power Supply | HYELEC | HY3005B | SUWI-01-18-01 | 2023/02/06 | 2024/02/05 |
| Power meter | Anritsu | ML2495A | SUWI-01-31-01 | 2022/11/23 | 2023/11/22 |
| Pulse power sensor | Anritsu | MA2411B | SUWI-01-32-01 | 2022/11/23 | 2023/11/22 |
| Signal Generator | ROHDE&SCHWARZ | SMM100A | SN: 101716 | 2023/02/22 | 2024/02/21 |

| CE Test System | | | | | |
|--------------------------------|---------------|------------------|---------------|-----------------------|---------------------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date (yyyy/mm/dd) | Cal Due Date (yyyy/mm/dd) |
| Test receiver | ROHDE&SCHWARZ | ESR7 | SUWI-01-10-01 | 2023/02/08 | 2024/02/07 |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-06 | 2023/02/07 | 2024/02/06 |
| Artificial network | ROHDE&SCHWARZ | ENV216 | SUWI-01-19-03 | 2023/02/08 | 2024/02/07 |
| Artificial network | ROHDE&SCHWARZ | ENV216 | SUWI-01-19-04 | 2023/02/08 | 2024/02/07 |
| Measurement Software | Tonscend | JS32-CE V4.0.0.2 | SUWI-02-09-05 | NCR | NCR |



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| RSE Test System | | | | | |
|--------------------------------|----------------------------|-----------------|---------------|-----------------------|---------------------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date (yyyy/mm/dd) | Cal Due Date (yyyy/mm/dd) |
| Semi-Anechoic Chamber | Brilliant-emc | N/A | SUWI-04-02-01 | 2021/05/08 | 2024/05/07 |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-05 | 2023/02/07 | 2024/02/06 |
| Signal Analyzer | ROHDE&SCHWARZ | FSW43 | SUWI-01-02-04 | 2023/05/11 | 2024/05/10 |
| Signal Analyzer | KEYSIGHT | N9020A | SUWI-01-02-05 | 2022/11/23 | 2023/11/22 |
| Test receiver | ROHDE&SCHWARZ | ESR7 | SUWI-01-10-01 | 2023/02/08 | 2024/02/07 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | VULB 9163 | SUWI-01-11-01 | 2023/05/13 | 2024/05/12 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | BBHA 9120D | SUWI-01-11-02 | 2023/05/13 | 2024/05/12 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | BBHA 9170 | SUWI-01-11-03 | 2023/05/12 | 2024/05/11 |
| Active Loop Antenna | SCHWRZBECK MESS-ELEKTRONIK | FMZB 1519B | SUWI-01-21-01 | 2023/05/13 | 2024/05/12 |
| Amplifier | Tonscend | TAP9K3G40 | SUWI-01-14-01 | 2023/02/06 | 2024/02/05 |
| Amplifier | Tonscend | TAP01018050 | SUWI-01-14-02 | 2023/02/06 | 2024/02/05 |
| Amplifier | Tonscend | TAP18040048 | SUWI-01-14-03 | 2023/02/08 | 2024/02/07 |
| Measurement Software | Tonscend | JS32-RE 4.0.0.0 | SUWI-02-09-04 | NCR | NCR |



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7 Photographs - Setup Photos

Refer to Appendix A.3 - 6E WIFI Setup Photos.



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Appendix



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**Emission Bandwidth
Test Result**

| TestMode | Antenna | Frequency[MHz] | 26dB EBW [MHz] | FL[MHz] | FH[MHz] | Verdict |
|------------|---------|----------------|----------------|---------|---------|--------------------|
| 11a-CDD | Ant0 | 5955 | 20.48 | 5944.68 | 5965.16 | For Report Purpose |
| 11a-CDD | Ant1 | 5955 | 20.72 | 5944.64 | 5965.36 | |
| 11a-CDD | Ant0 | 6175 | 20.12 | 6164.76 | 6184.88 | |
| 11a-CDD | Ant1 | 6175 | 20.24 | 6164.72 | 6184.96 | |
| 11a-CDD | Ant0 | 6415 | 20.12 | 6404.72 | 6424.84 | |
| 11a-CDD | Ant1 | 6415 | 20.04 | 6404.76 | 6424.80 | |
| 11a-CDD | Ant0 | 6435 | 20.04 | 6424.76 | 6444.80 | |
| 11a-CDD | Ant1 | 6435 | 20.28 | 6424.68 | 6444.96 | |
| 11a-CDD | Ant0 | 6475 | 20.24 | 6464.68 | 6484.92 | |
| 11a-CDD | Ant1 | 6475 | 20.24 | 6464.68 | 6484.92 | |
| 11a-CDD | Ant0 | 6515 | 20.24 | 6504.68 | 6524.92 | |
| 11a-CDD | Ant1 | 6515 | 20.04 | 6504.72 | 6524.76 | |
| 11a-CDD | Ant0 | 6535 | 20.00 | 6524.80 | 6544.80 | |
| 11a-CDD | Ant1 | 6535 | 20.44 | 6524.72 | 6545.16 | |
| 11a-CDD | Ant0 | 6695 | 20.12 | 6684.68 | 6704.80 | |
| 11a-CDD | Ant1 | 6695 | 20.24 | 6684.64 | 6704.88 | |
| 11a-CDD | Ant0 | 6855 | 20.20 | 6844.68 | 6864.88 | |
| 11a-CDD | Ant1 | 6855 | 20.52 | 6844.64 | 6865.16 | |
| 11a-CDD | Ant0 | 6875 | 20.56 | 6864.64 | 6885.20 | |
| 11a-CDD | Ant1 | 6875 | 20.48 | 6864.76 | 6885.24 | |
| 11a-CDD | Ant0 | 6895 | 20.52 | 6884.68 | 6905.20 | |
| 11a-CDD | Ant1 | 6895 | 20.60 | 6884.64 | 6905.24 | |
| 11a-CDD | Ant0 | 6995 | 21.40 | 6983.96 | 7005.36 | |
| 11a-CDD | Ant1 | 6995 | 20.52 | 6984.68 | 7005.20 | |
| 11a-CDD | Ant0 | 7115 | 20.68 | 7104.64 | 7125.32 | |
| 11a-CDD | Ant1 | 7115 | 20.72 | 7104.64 | 7125.36 | |
| 11ax20MIMO | Ant0 | 5955 | 21.56 | 5944.20 | 5965.76 | |
| 11ax20MIMO | Ant1 | 5955 | 26.88 | 5942.28 | 5969.16 | |
| 11ax20MIMO | Ant0 | 6175 | 21.44 | 6164.24 | 6185.68 | |
| 11ax20MIMO | Ant1 | 6175 | 21.76 | 6164.16 | 6185.92 | |
| 11ax20MIMO | Ant0 | 6415 | 21.68 | 6403.92 | 6425.60 | |
| 11ax20MIMO | Ant1 | 6415 | 21.48 | 6404.32 | 6425.80 | |
| 11ax20MIMO | Ant0 | 6435 | 21.48 | 6424.16 | 6445.64 | |
| 11ax20MIMO | Ant1 | 6435 | 21.40 | 6424.32 | 6445.72 | |
| 11ax20MIMO | Ant0 | 6475 | 21.52 | 6464.28 | 6485.80 | |
| 11ax20MIMO | Ant1 | 6475 | 21.56 | 6464.28 | 6485.84 | |
| 11ax20MIMO | Ant0 | 6515 | 21.64 | 6504.20 | 6525.84 | |
| 11ax20MIMO | Ant1 | 6515 | 21.40 | 6504.32 | 6525.72 | |
| 11ax20MIMO | Ant0 | 6535 | 21.76 | 6524.08 | 6545.84 | |
| 11ax20MIMO | Ant1 | 6535 | 21.60 | 6524.08 | 6545.68 | |
| 11ax20MIMO | Ant0 | 6695 | 21.80 | 6683.96 | 6705.76 | |
| 11ax20MIMO | Ant1 | 6695 | 21.56 | 6684.16 | 6705.72 | |
| 11ax20MIMO | Ant0 | 6855 | 21.72 | 6844.04 | 6865.76 | |
| 11ax20MIMO | Ant1 | 6855 | 21.76 | 6844.08 | 6865.84 | |
| 11ax20MIMO | Ant0 | 6875 | 21.60 | 6864.04 | 6885.64 | |
| 11ax20MIMO | Ant1 | 6875 | 21.84 | 6863.92 | 6885.76 | |
| 11ax20MIMO | Ant0 | 6895 | 21.56 | 6884.16 | 6905.72 | |
| 11ax20MIMO | Ant1 | 6895 | 21.48 | 6884.28 | 6905.76 | |



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| | | | | | |
|-------------|------|------|--------|---------|---------|
| 11ax20MIMO | Ant0 | 6995 | 21.64 | 6984.20 | 7005.84 |
| 11ax20MIMO | Ant1 | 6995 | 21.76 | 6984.04 | 7005.80 |
| 11ax20MIMO | Ant0 | 7115 | 21.64 | 7104.28 | 7125.92 |
| 11ax20MIMO | Ant1 | 7115 | 21.48 | 7104.24 | 7125.72 |
| 11ax40MIMO | Ant0 | 5965 | 41.20 | 5944.04 | 5985.24 |
| 11ax40MIMO | Ant1 | 5965 | 41.44 | 5944.20 | 5985.64 |
| 11ax40MIMO | Ant0 | 6165 | 40.88 | 6144.52 | 6185.40 |
| 11ax40MIMO | Ant1 | 6165 | 40.80 | 6144.60 | 6185.40 |
| 11ax40MIMO | Ant0 | 6405 | 40.96 | 6384.52 | 6425.48 |
| 11ax40MIMO | Ant1 | 6405 | 40.64 | 6384.68 | 6425.32 |
| 11ax40MIMO | Ant0 | 6445 | 40.72 | 6424.68 | 6465.40 |
| 11ax40MIMO | Ant1 | 6445 | 40.64 | 6424.76 | 6465.40 |
| 11ax40MIMO | Ant0 | 6485 | 40.88 | 6464.60 | 6505.48 |
| 11ax40MIMO | Ant1 | 6485 | 40.32 | 6464.84 | 6505.16 |
| 11ax40MIMO | Ant0 | 6525 | 40.64 | 6504.68 | 6545.32 |
| 11ax40MIMO | Ant1 | 6525 | 40.88 | 6504.52 | 6545.40 |
| 11ax40MIMO | Ant0 | 6565 | 41.12 | 6544.44 | 6585.56 |
| 11ax40MIMO | Ant1 | 6565 | 41.12 | 6544.44 | 6585.56 |
| 11ax40MIMO | Ant0 | 6685 | 41.12 | 6664.44 | 6705.56 |
| 11ax40MIMO | Ant1 | 6685 | 40.88 | 6664.52 | 6705.40 |
| 11ax40MIMO | Ant0 | 6845 | 40.88 | 6824.52 | 6865.40 |
| 11ax40MIMO | Ant1 | 6845 | 40.88 | 6824.28 | 6865.16 |
| 11ax40MIMO | Ant0 | 6885 | 40.96 | 6864.44 | 6905.40 |
| 11ax40MIMO | Ant1 | 6885 | 41.04 | 6864.28 | 6905.32 |
| 11ax40MIMO | Ant0 | 6925 | 40.80 | 6904.44 | 6945.24 |
| 11ax40MIMO | Ant1 | 6925 | 40.72 | 6904.60 | 6945.32 |
| 11ax40MIMO | Ant0 | 6965 | 41.04 | 6944.28 | 6985.32 |
| 11ax40MIMO | Ant1 | 6965 | 41.04 | 6944.20 | 6985.24 |
| 11ax40MIMO | Ant0 | 7085 | 40.88 | 7064.44 | 7105.32 |
| 11ax40MIMO | Ant1 | 7085 | 40.88 | 7064.60 | 7105.48 |
| 11ax80MIMO | Ant0 | 5985 | 83.04 | 5943.08 | 6026.12 |
| 11ax80MIMO | Ant1 | 5985 | 83.20 | 5943.24 | 6026.44 |
| 11ax80MIMO | Ant0 | 6145 | 83.04 | 6103.24 | 6186.28 |
| 11ax80MIMO | Ant1 | 6145 | 83.52 | 6102.92 | 6186.44 |
| 11ax80MIMO | Ant0 | 6385 | 82.72 | 6343.56 | 6426.28 |
| 11ax80MIMO | Ant1 | 6385 | 83.36 | 6343.24 | 6426.60 |
| 11ax80MIMO | Ant0 | 6465 | 83.20 | 6423.08 | 6506.28 |
| 11ax80MIMO | Ant1 | 6465 | 82.88 | 6423.72 | 6506.60 |
| 11ax80MIMO | Ant0 | 6545 | 83.20 | 6503.24 | 6586.44 |
| 11ax80MIMO | Ant1 | 6545 | 82.72 | 6503.40 | 6586.12 |
| 11ax80MIMO | Ant0 | 6625 | 83.04 | 6583.24 | 6666.28 |
| 11ax80MIMO | Ant1 | 6625 | 83.36 | 6583.08 | 6666.44 |
| 11ax80MIMO | Ant0 | 6705 | 83.04 | 6663.40 | 6746.44 |
| 11ax80MIMO | Ant1 | 6705 | 83.20 | 6662.92 | 6746.12 |
| 11ax80MIMO | Ant0 | 6785 | 83.36 | 6743.24 | 6826.60 |
| 11ax80MIMO | Ant1 | 6785 | 83.52 | 6743.24 | 6826.76 |
| 11ax80MIMO | Ant0 | 6865 | 83.52 | 6823.40 | 6906.92 |
| 11ax80MIMO | Ant1 | 6865 | 83.20 | 6823.40 | 6906.60 |
| 11ax80MIMO | Ant0 | 6945 | 83.04 | 6903.40 | 6986.44 |
| 11ax80MIMO | Ant1 | 6945 | 83.52 | 6902.92 | 6986.44 |
| 11ax80MIMO | Ant0 | 7025 | 82.72 | 6983.72 | 7066.44 |
| 11ax80MIMO | Ant1 | 7025 | 83.68 | 6982.60 | 7066.28 |
| 11ax160MIMO | Ant0 | 6025 | 166.72 | 5941.16 | 6107.88 |
| 11ax160MIMO | Ant1 | 6025 | 167.36 | 5940.84 | 6108.20 |
| 11ax160MIMO | Ant0 | 6185 | 167.68 | 6100.20 | 6267.88 |
| 11ax160MIMO | Ant1 | 6185 | 166.40 | 6101.48 | 6267.88 |



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| | | | | | |
|-------------|------|------|--------|---------|---------|
| 11ax160MIMO | Ant0 | 6345 | 178.88 | 6248.68 | 6427.56 |
| 11ax160MIMO | Ant1 | 6345 | 166.40 | 6261.16 | 6427.56 |
| 11ax160MIMO | Ant0 | 6505 | 168.64 | 6419.56 | 6588.20 |
| 11ax160MIMO | Ant1 | 6505 | 170.56 | 6418.60 | 6589.16 |
| 11ax160MIMO | Ant0 | 6665 | 166.40 | 6581.16 | 6747.56 |
| 11ax160MIMO | Ant1 | 6665 | 166.40 | 6581.80 | 6748.20 |
| 11ax160MIMO | Ant0 | 6825 | 165.76 | 6742.12 | 6907.88 |
| 11ax160MIMO | Ant1 | 6825 | 167.04 | 6741.80 | 6908.84 |
| 11ax160MIMO | Ant0 | 6985 | 198.40 | 6900.52 | 7098.92 |
| 11ax160MIMO | Ant1 | 6985 | 166.40 | 6901.80 | 7068.20 |

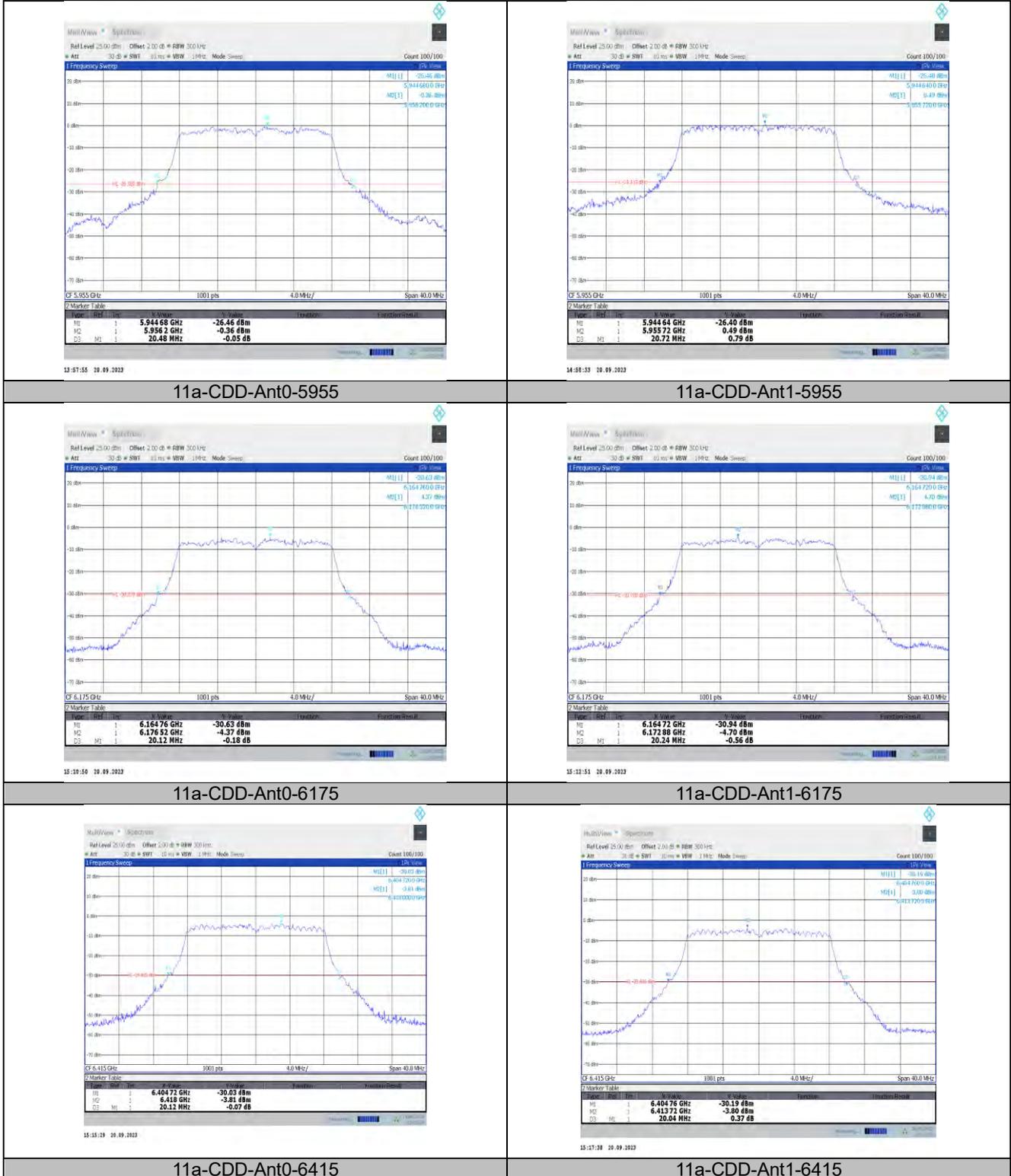


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Test Graphs



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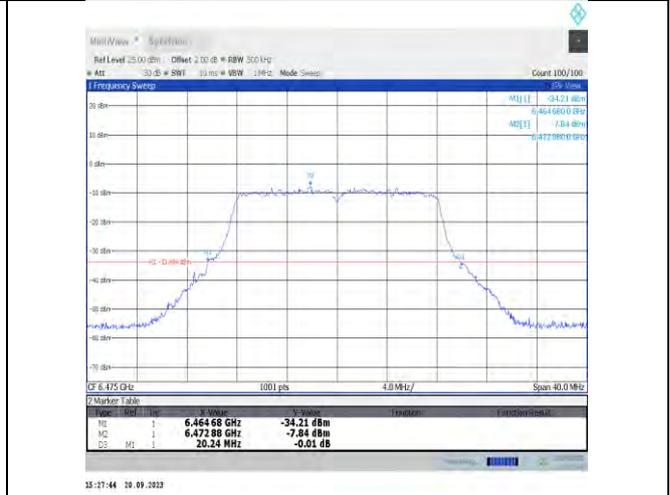
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11a-CDD-Ant1-6435



11a-CDD-Ant0-6475



11a-CDD-Ant1-6475



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11a-CDD-Ant1-6515

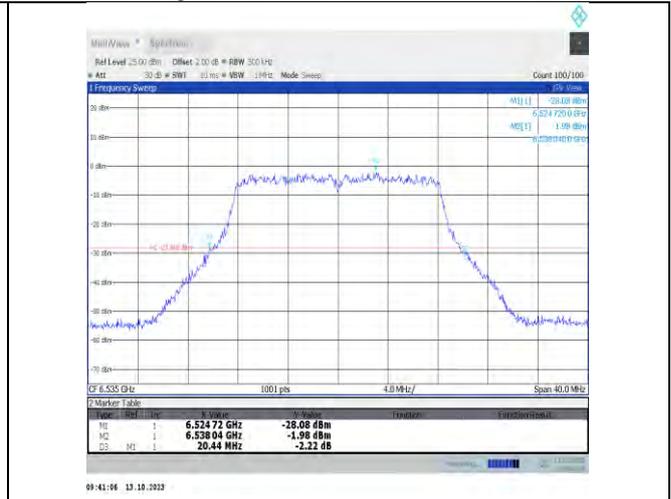


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11a-CDD-Ant0-6535



11a-CDD-Ant1-6535



11a-CDD-Ant0-6695



11a-CDD-Ant1-6695



11a-CDD-Ant0-6855

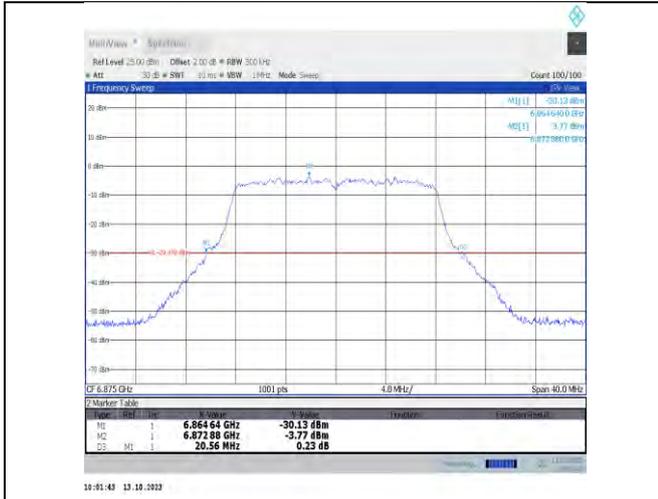


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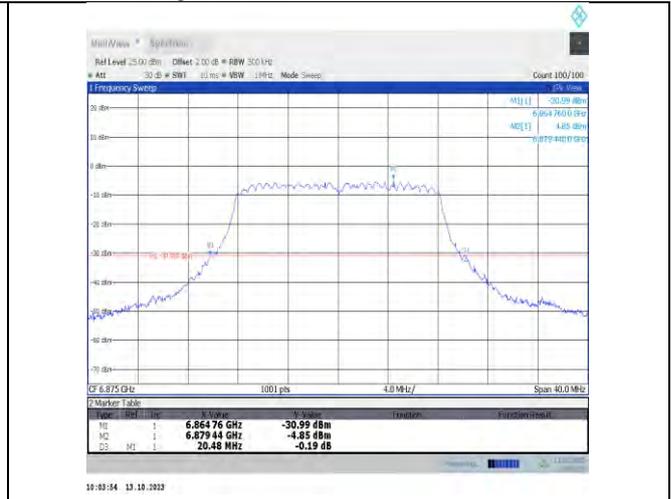


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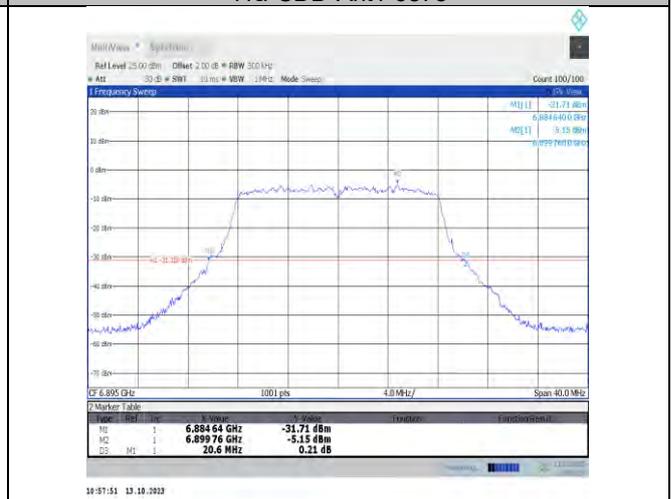
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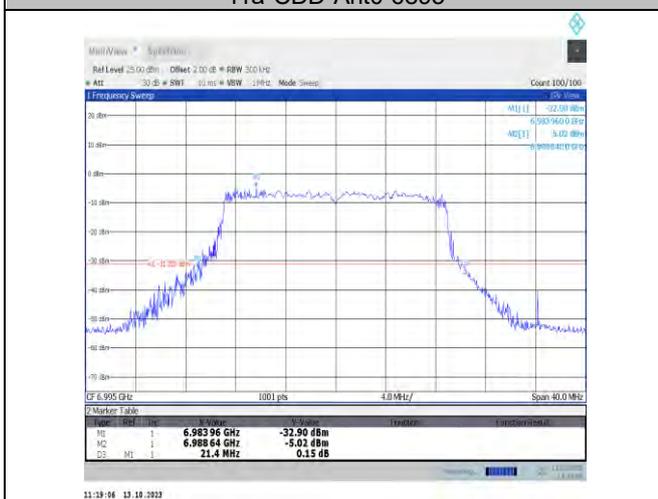
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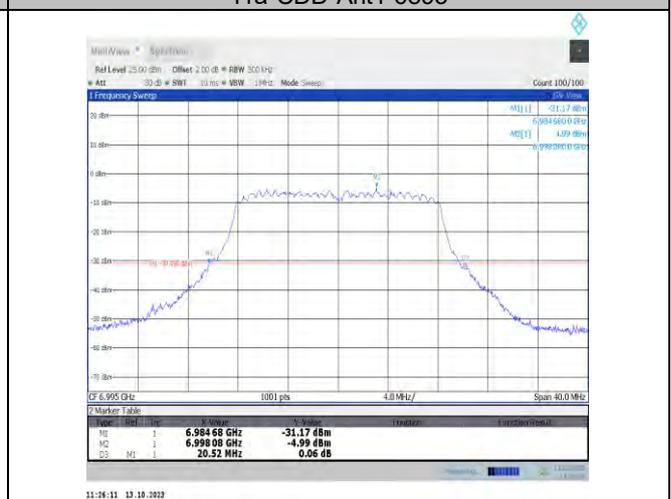
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11a-CDD-Ant1-6895



11a-CDD-Ant0-6995

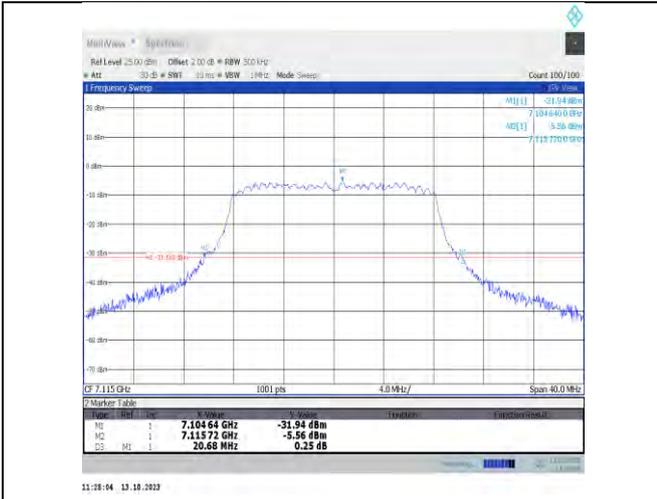


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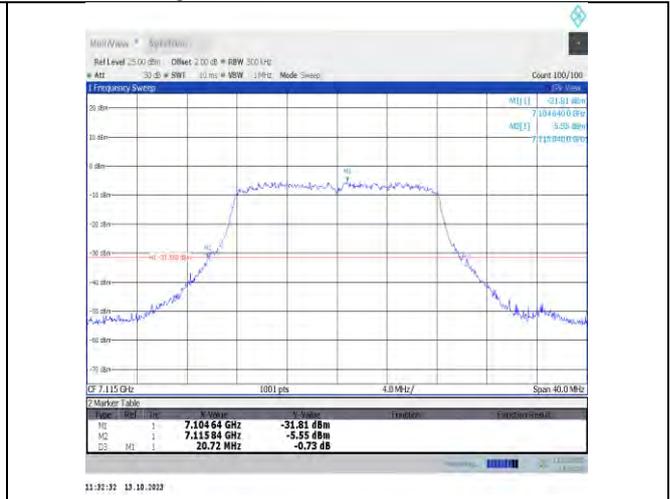


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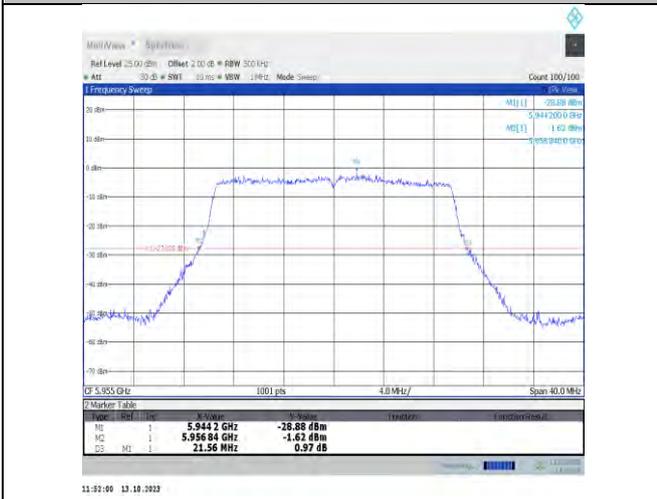
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11a-CDD-Ant0-7115



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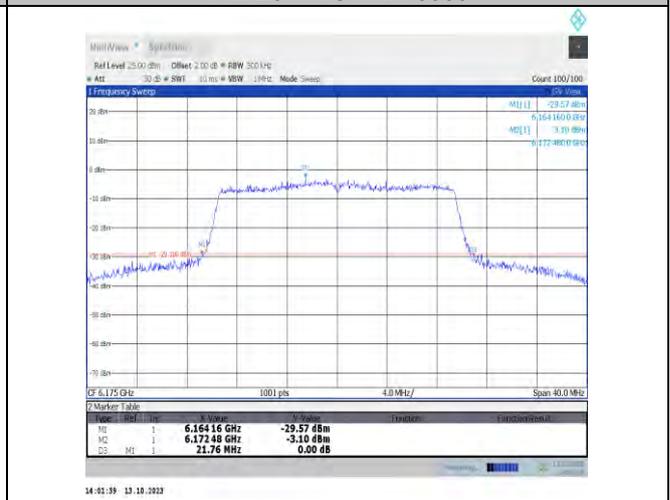
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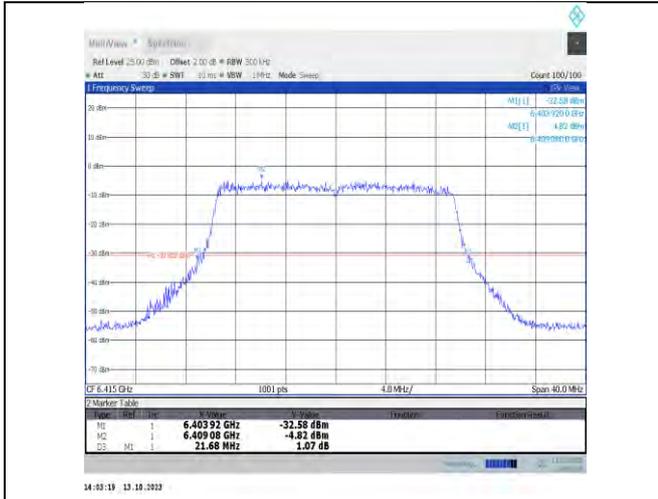


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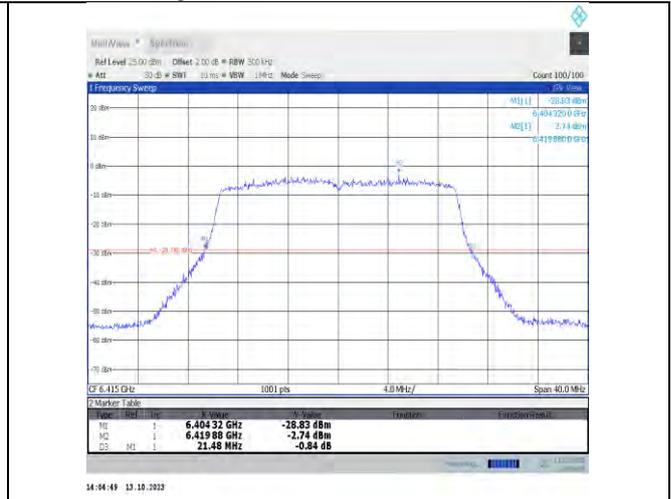


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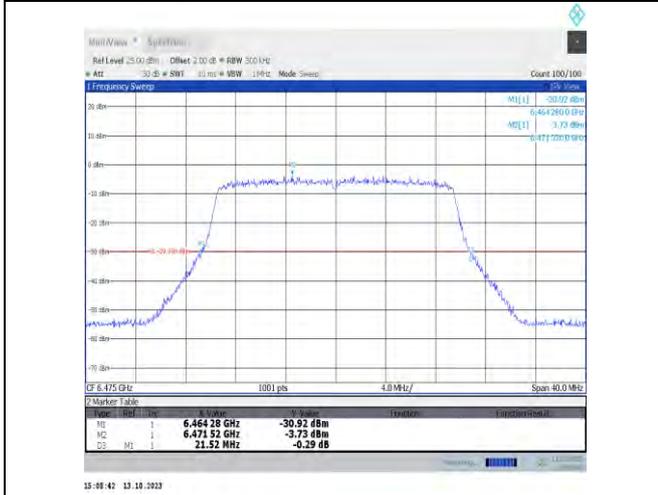
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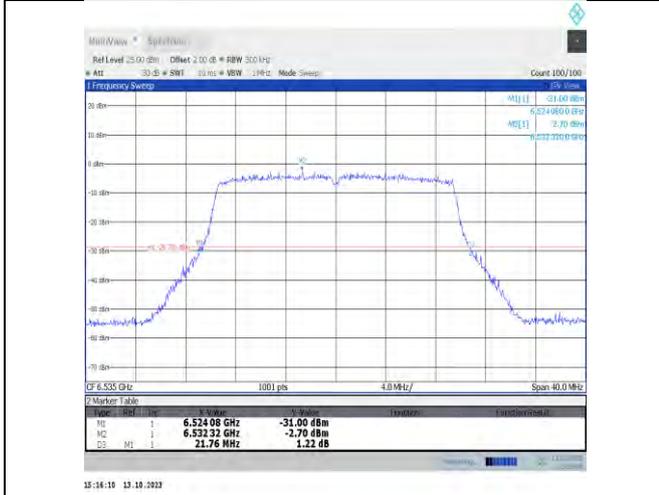
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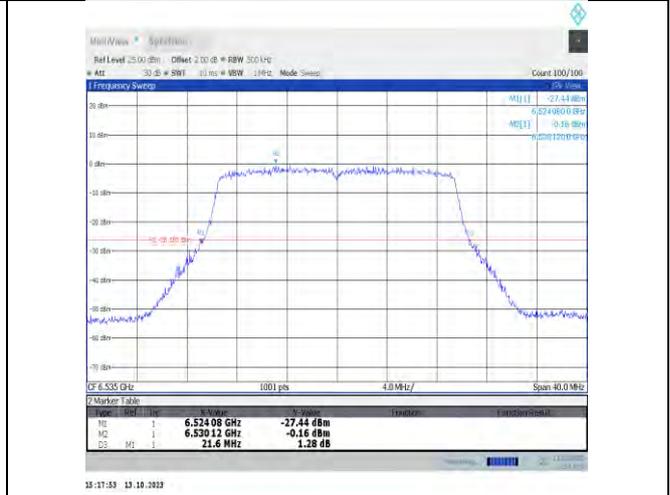
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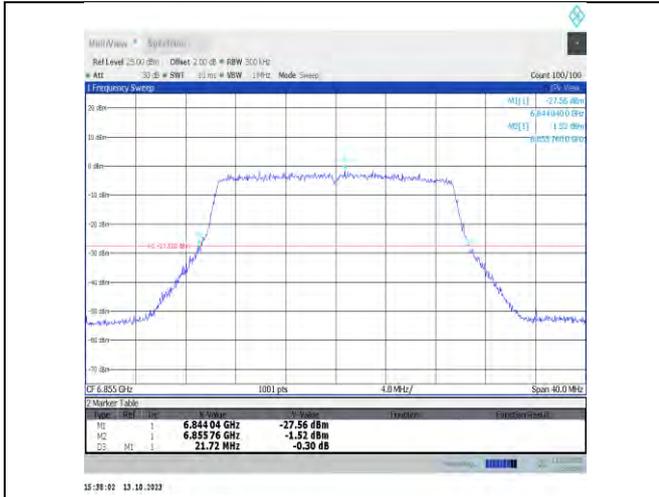
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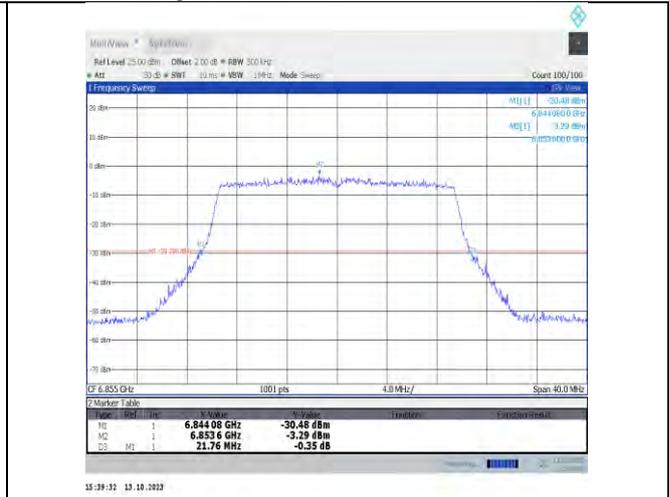
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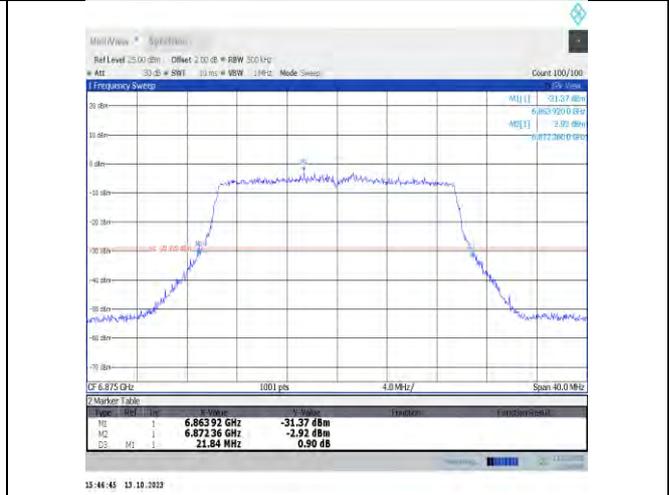
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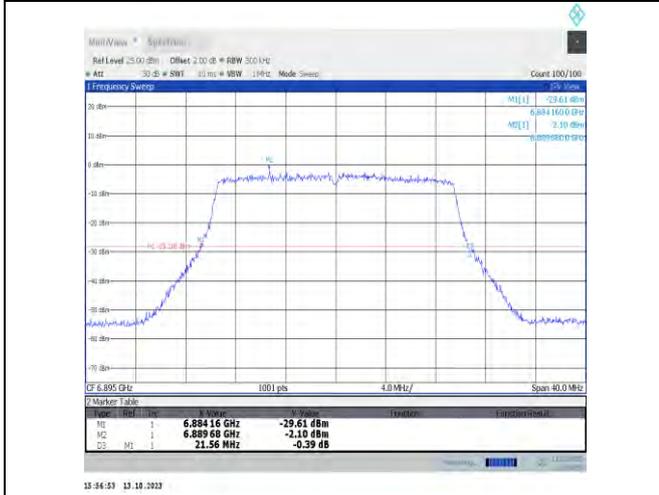
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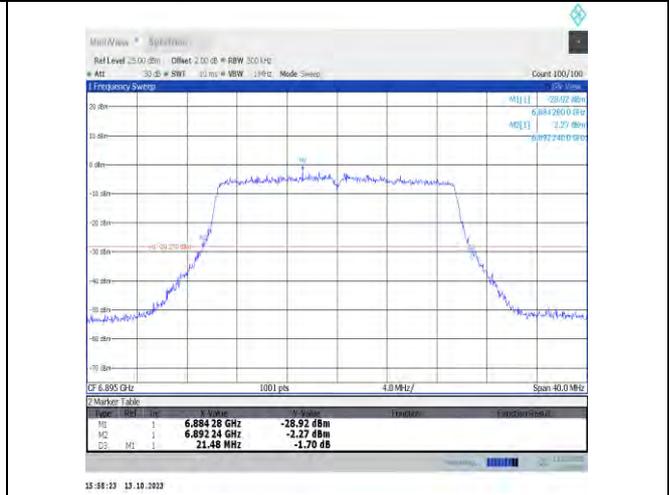
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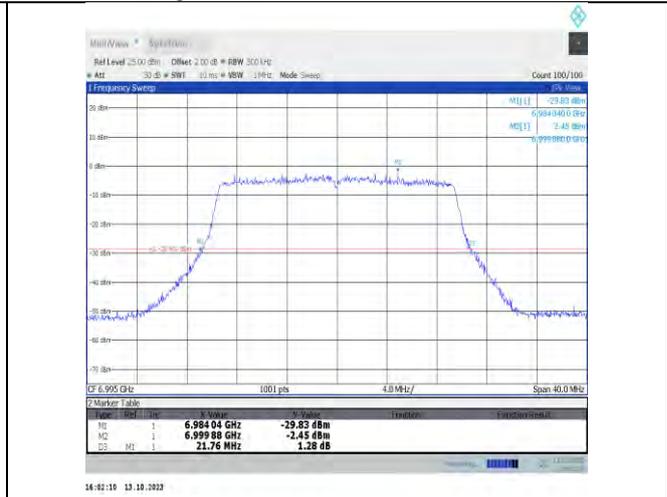
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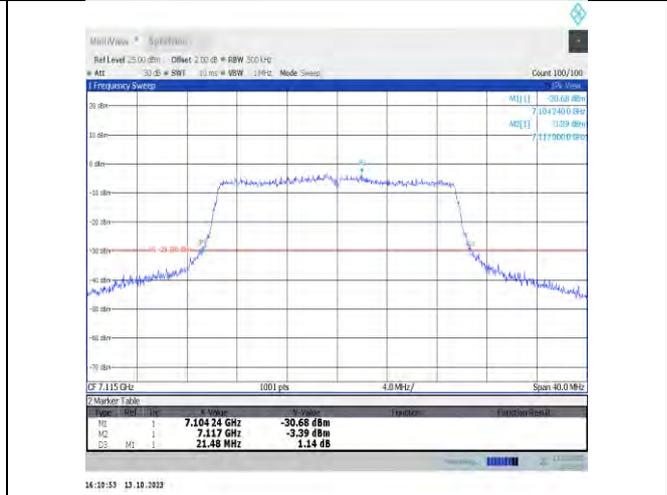
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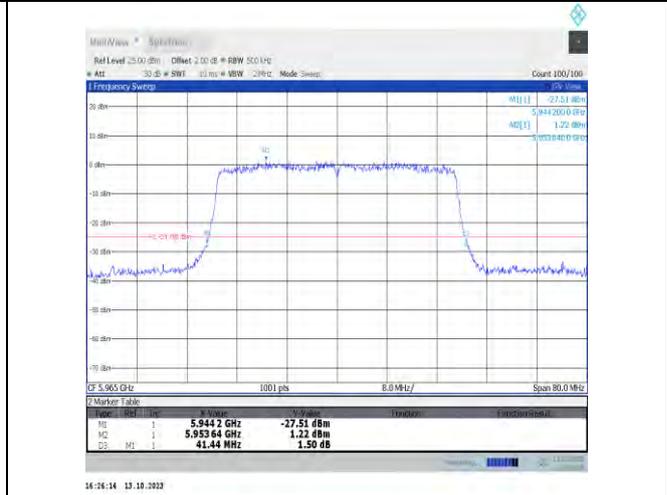
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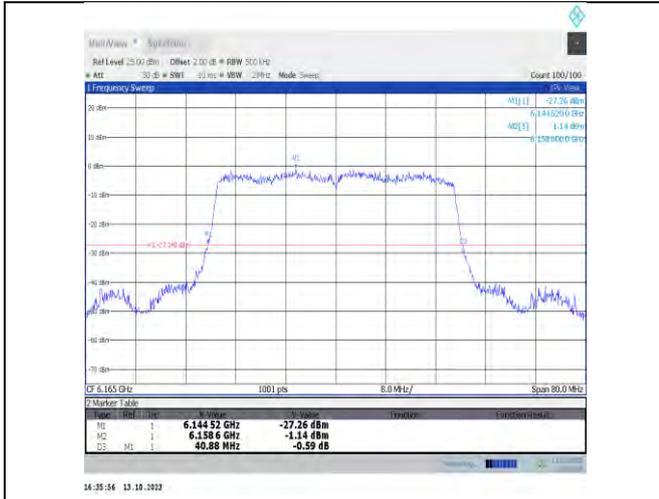
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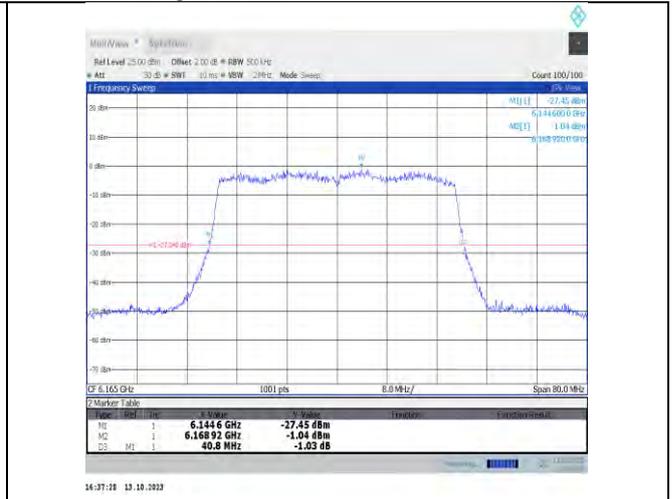
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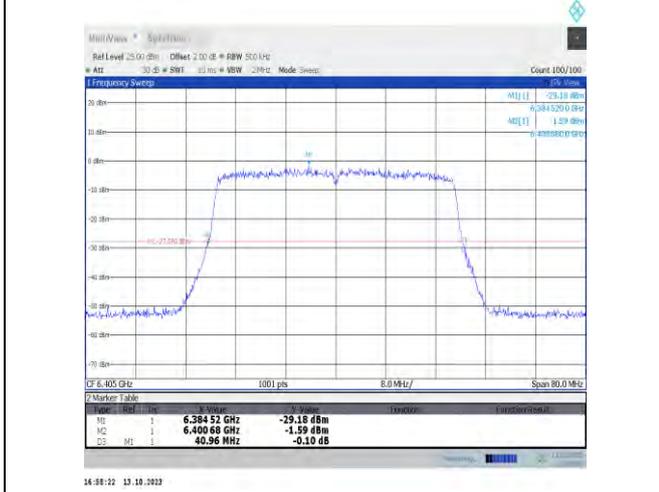
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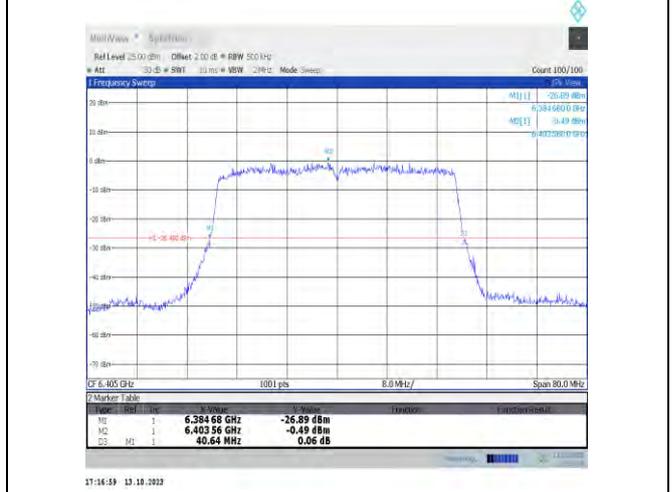
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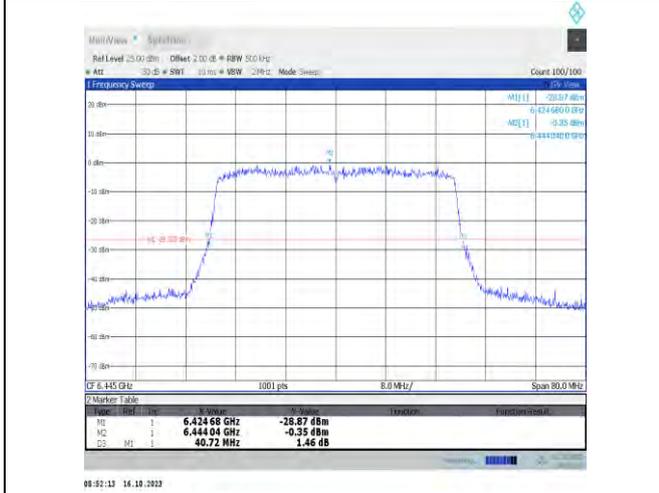
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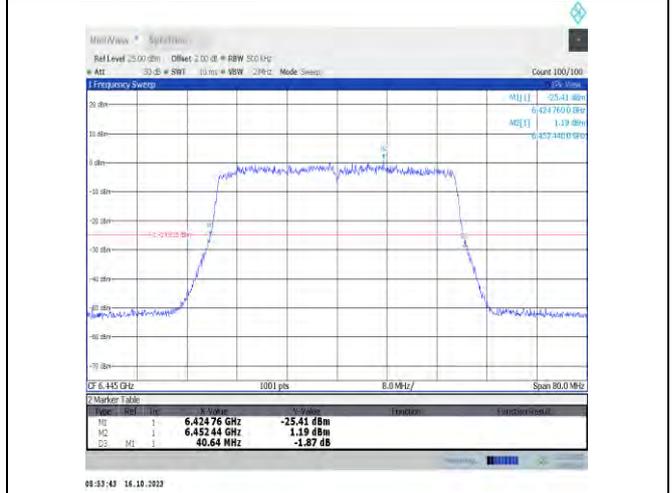
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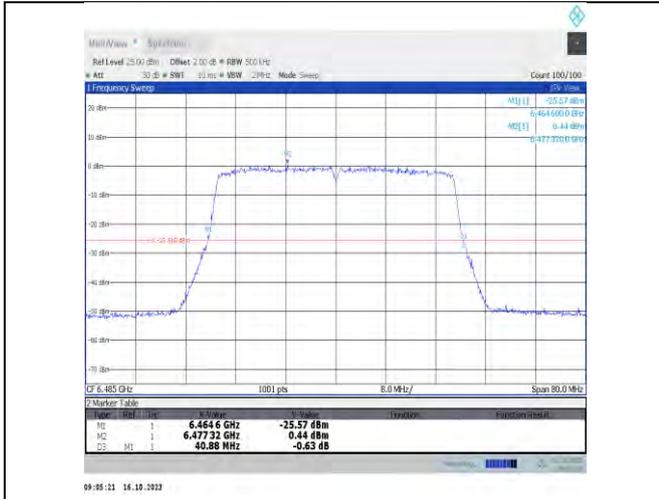
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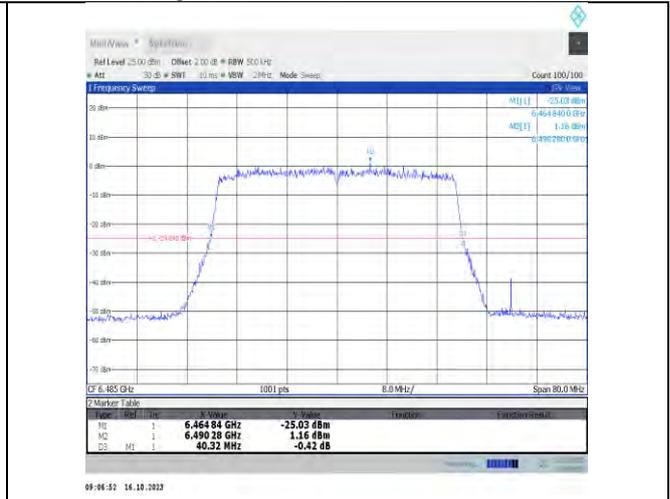
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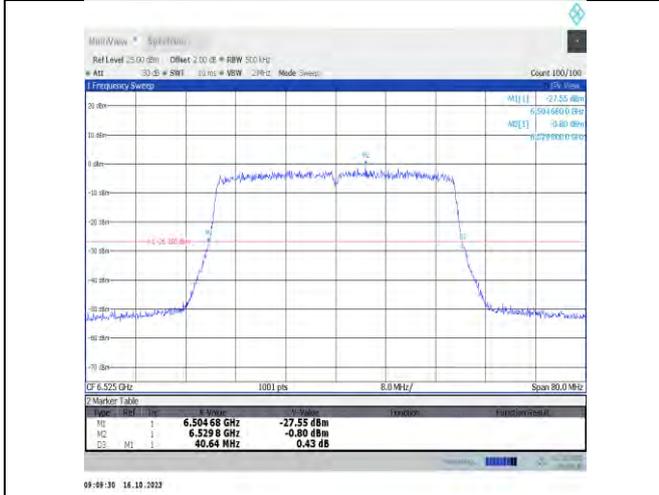
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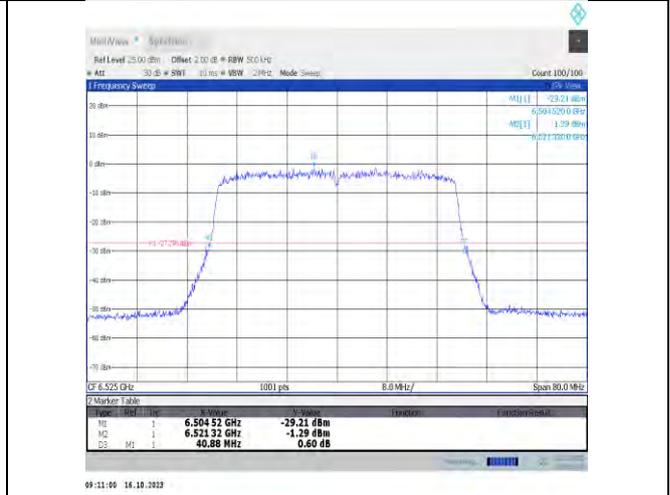
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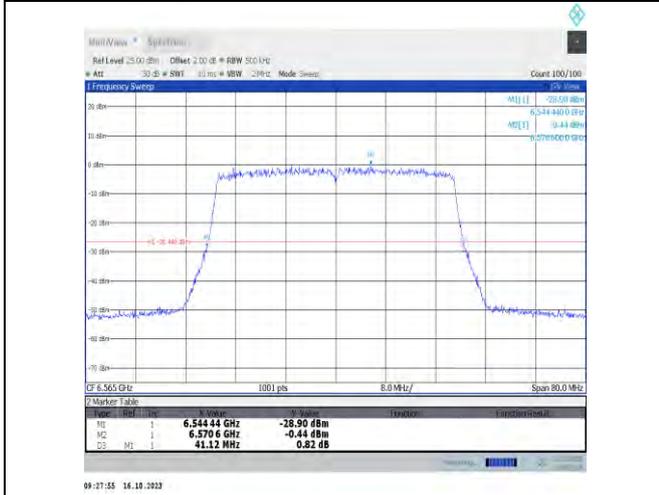
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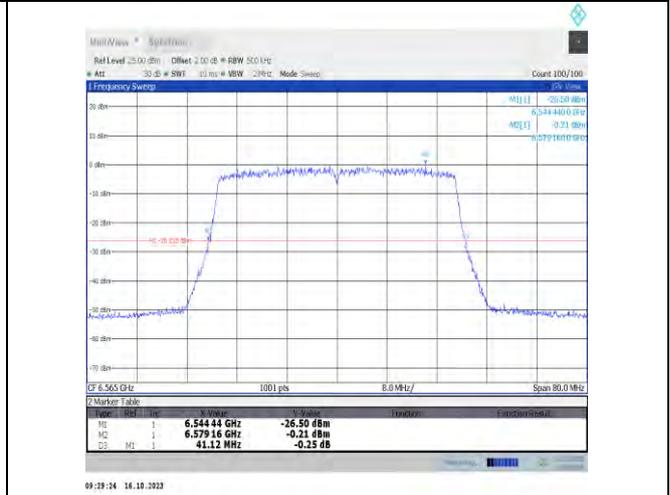
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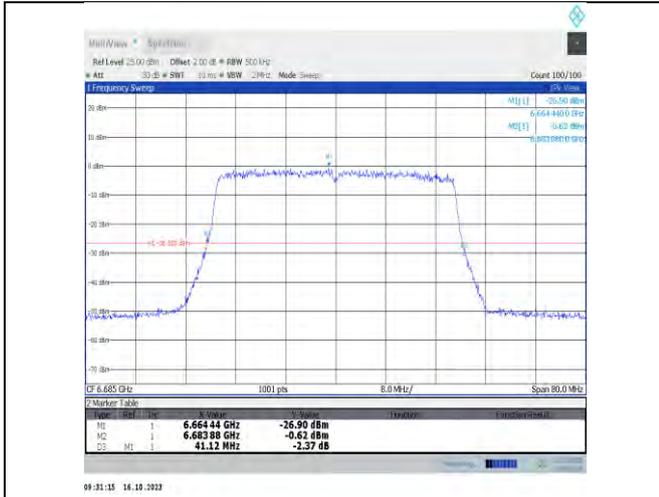


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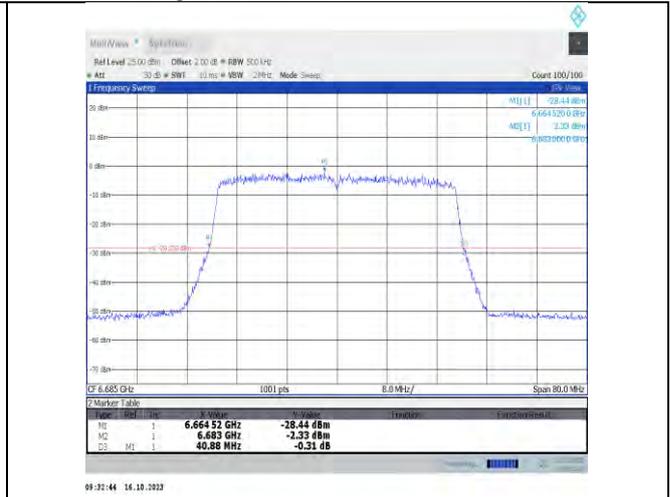


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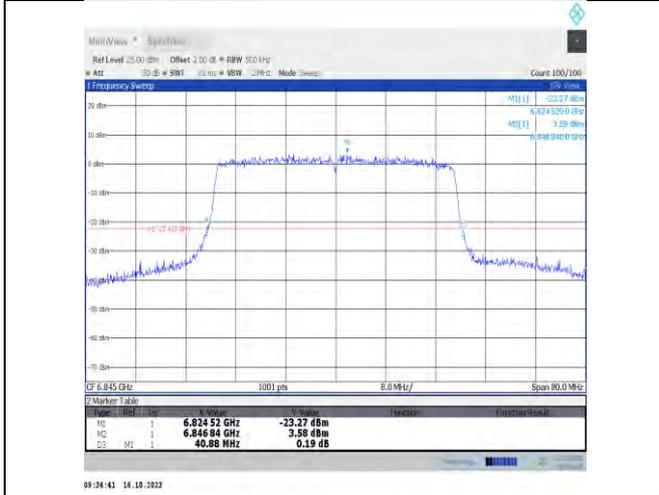
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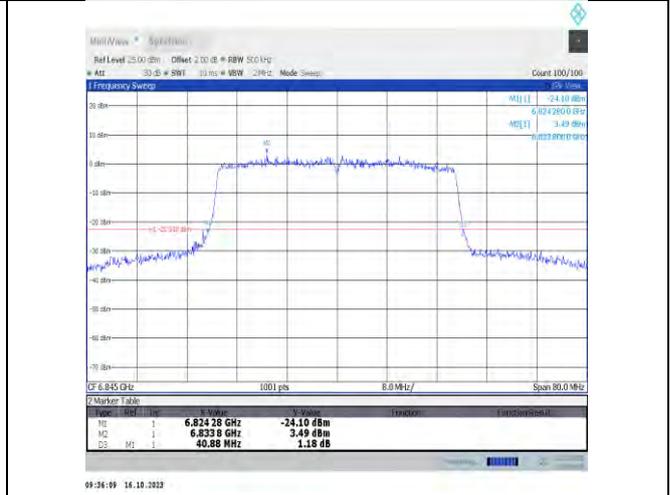
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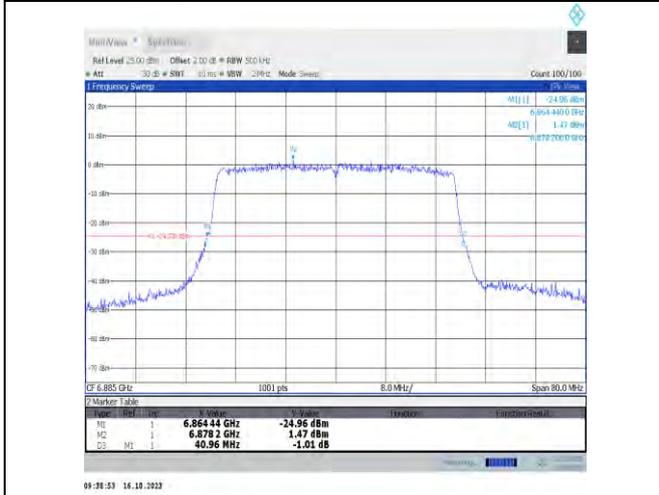
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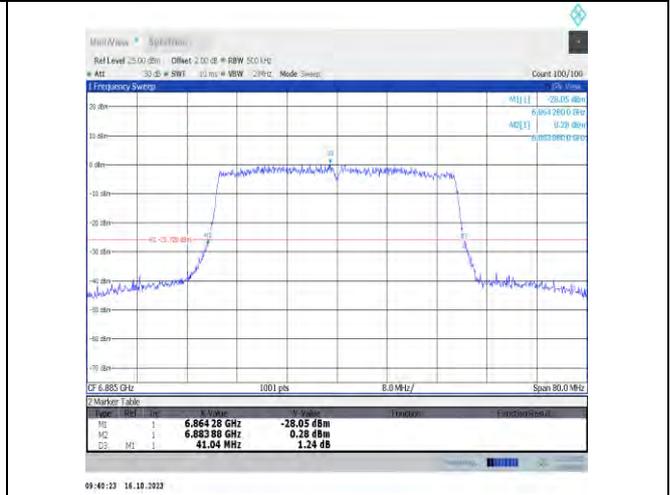
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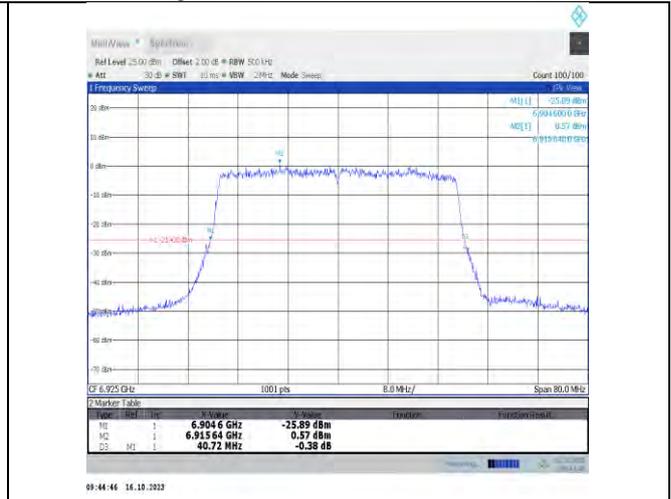


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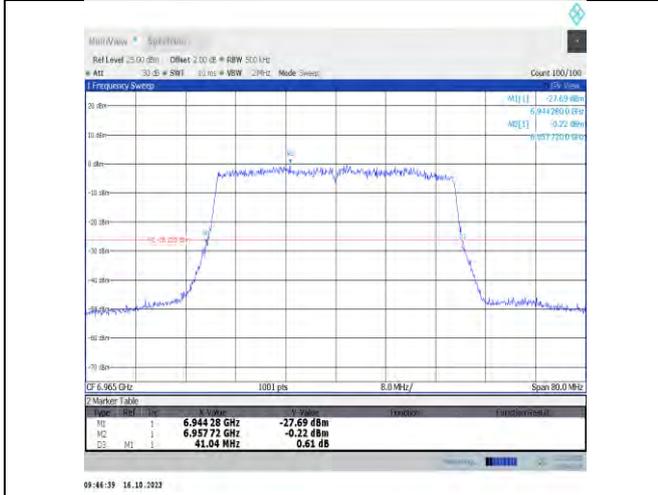
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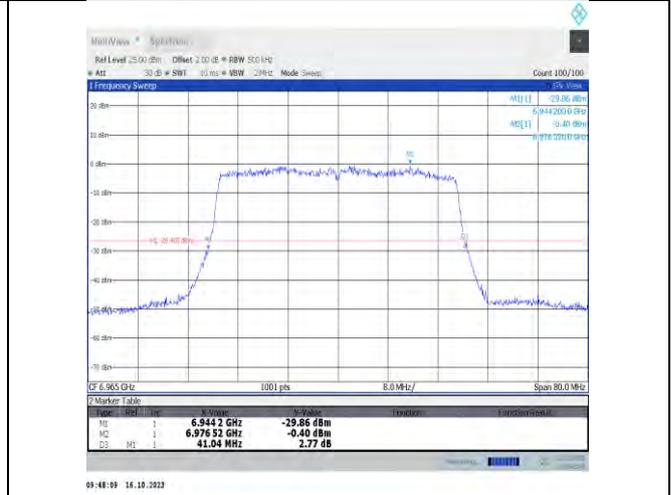
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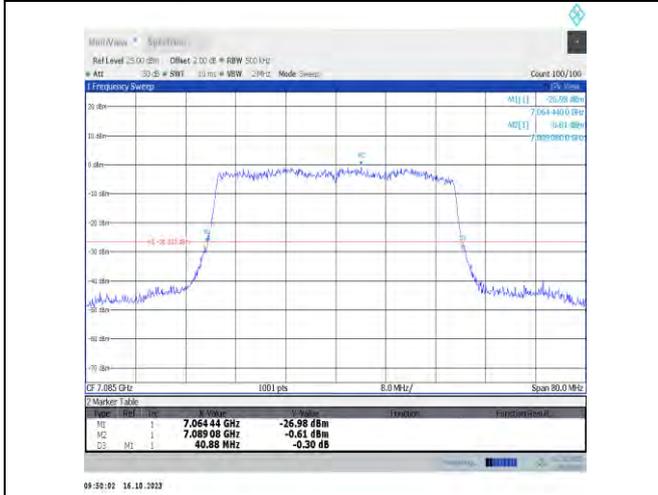
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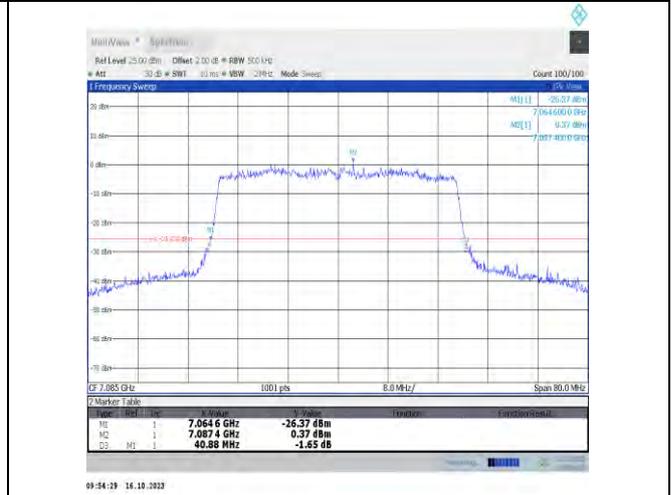
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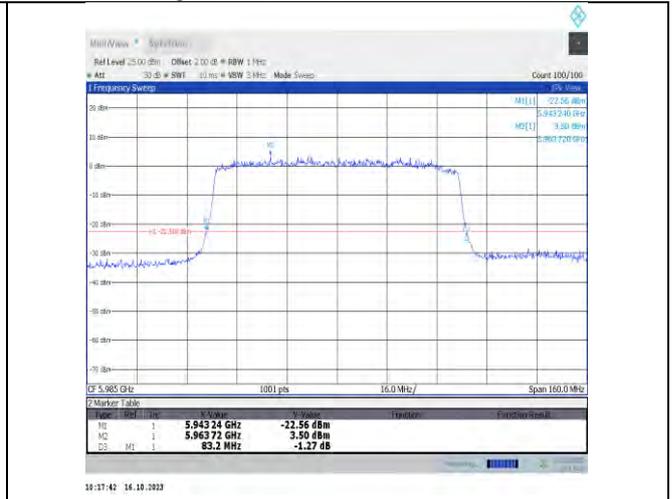
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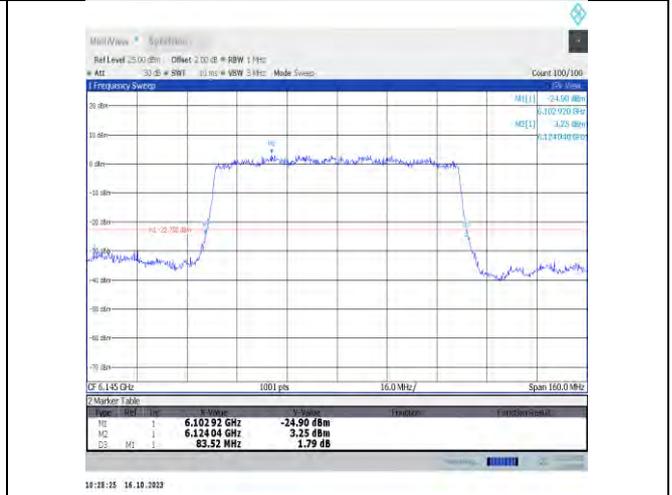
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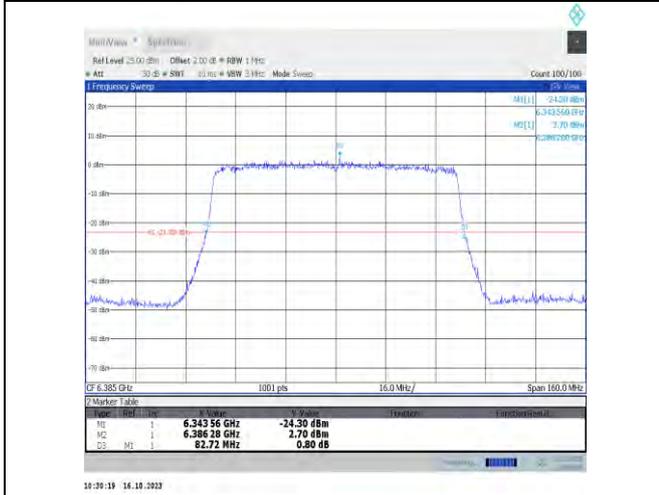
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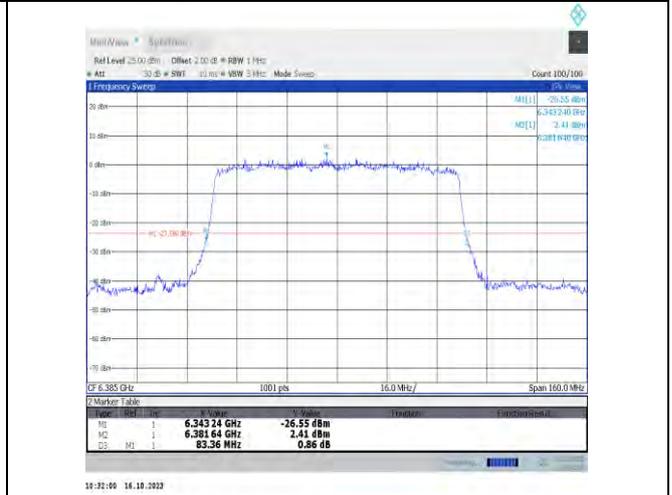
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11ax80MIMO-Ant1-6145



11ax80MIMO-Ant0-6385

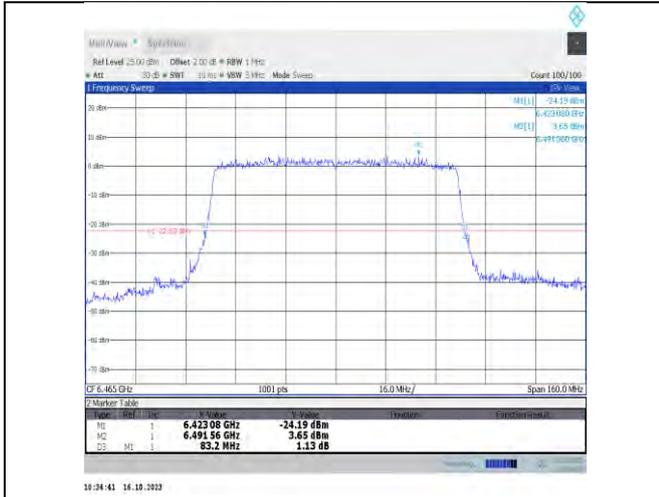


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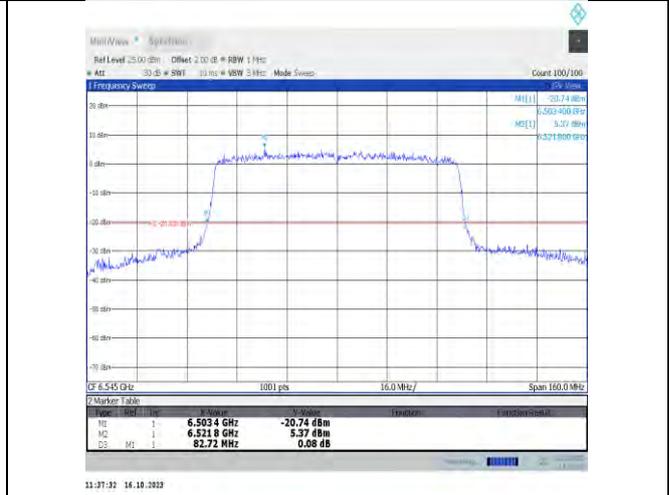
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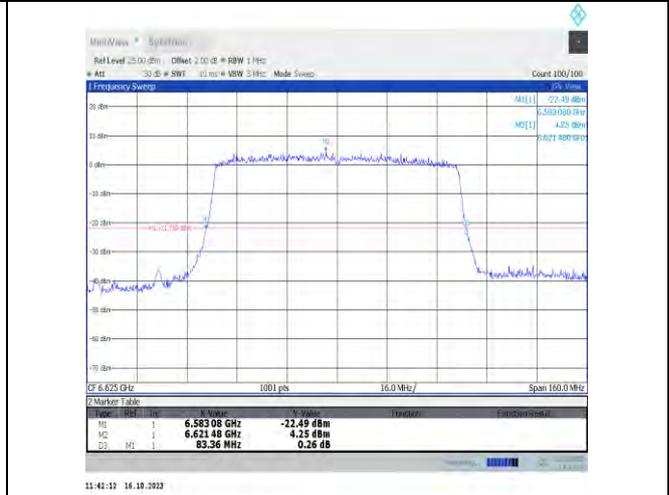
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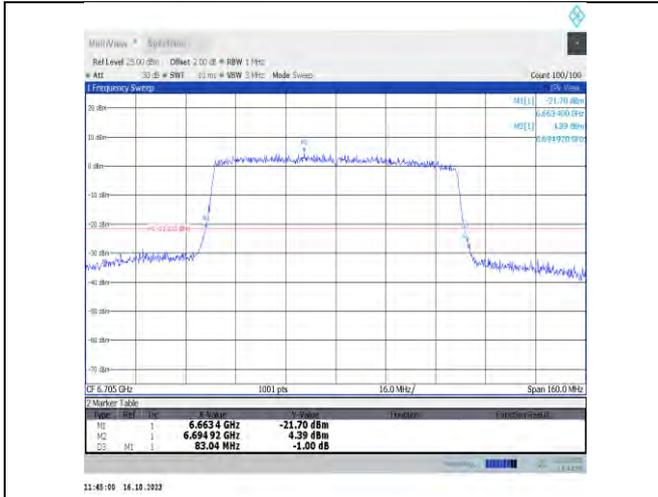


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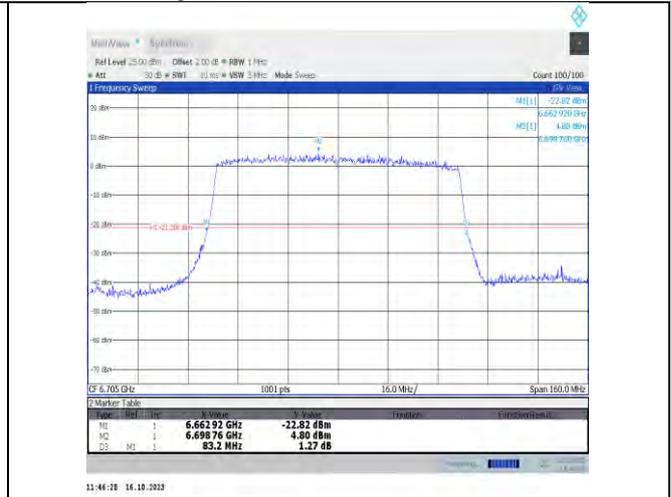


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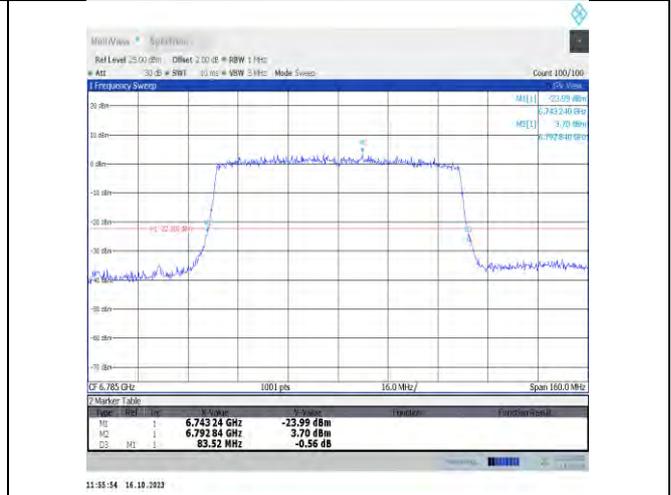
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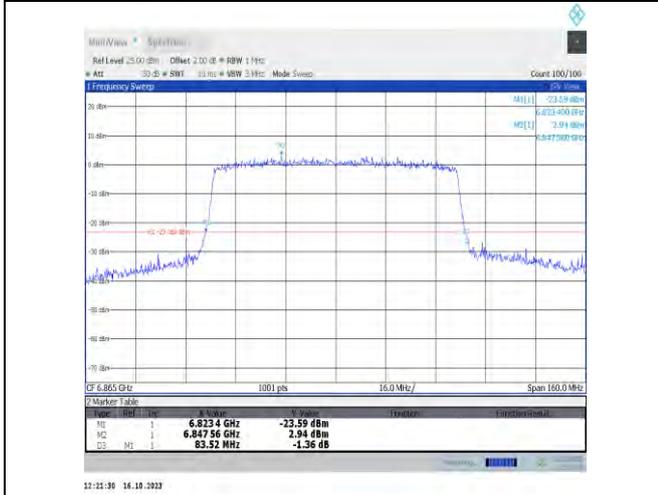
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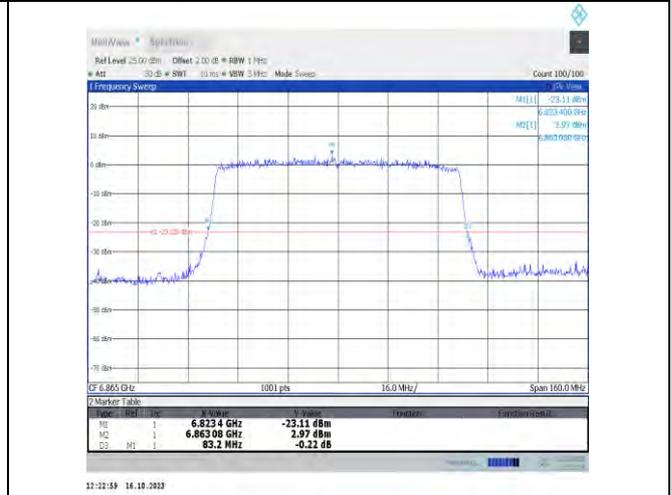
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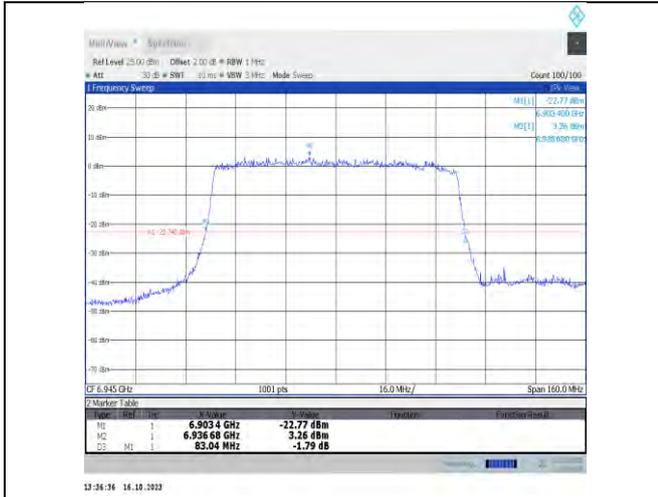
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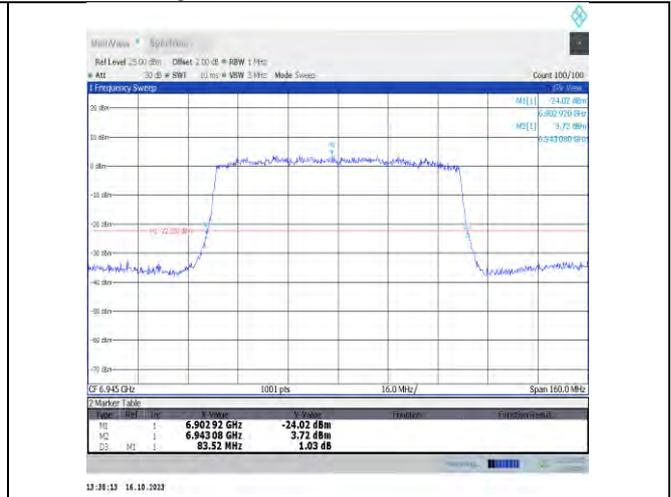
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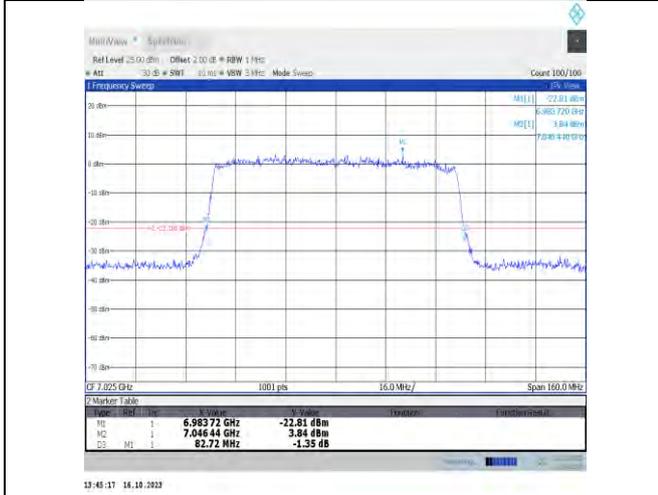
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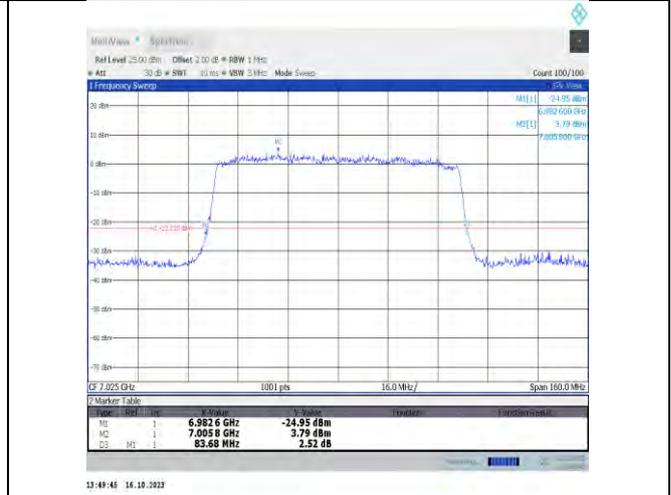
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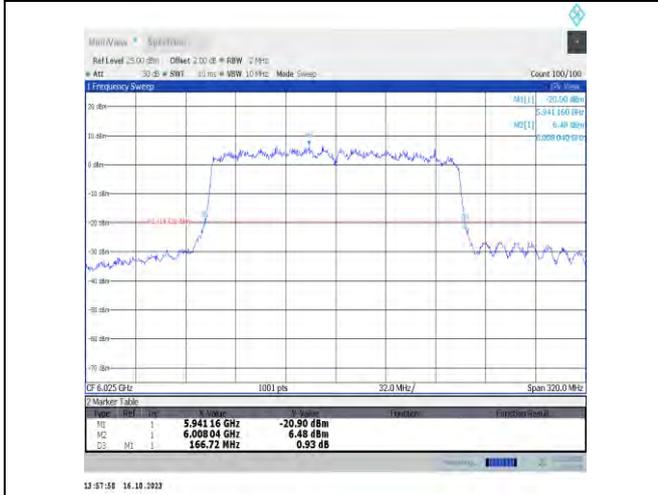
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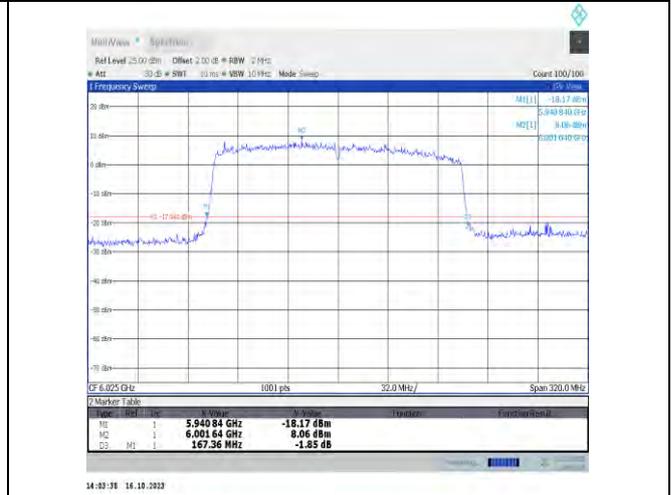
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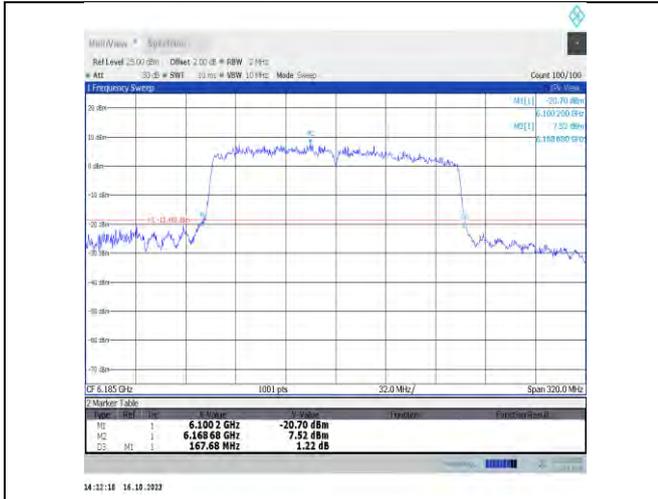


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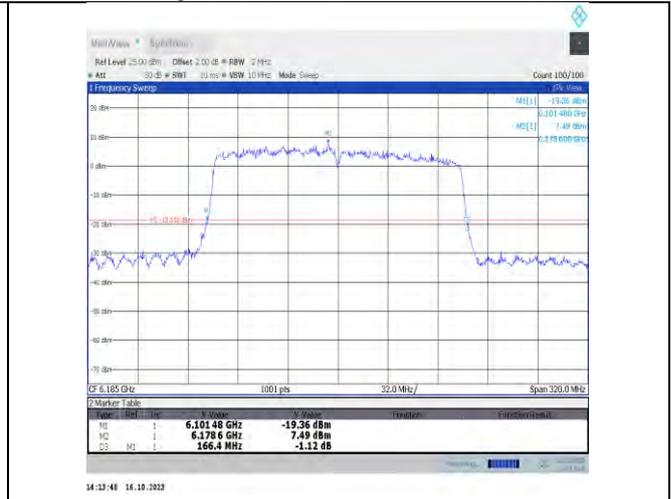


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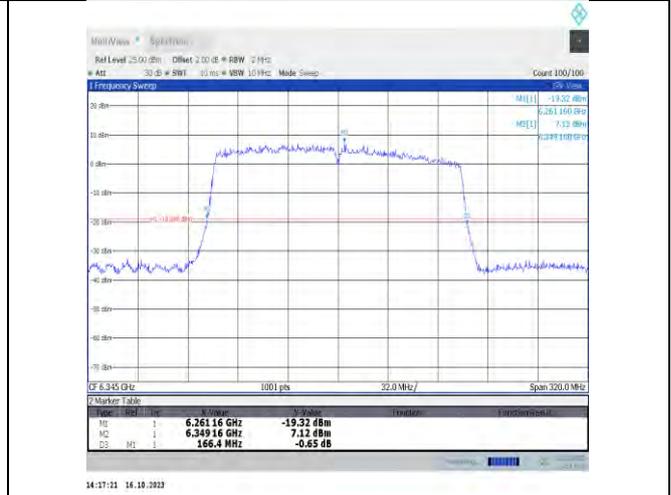
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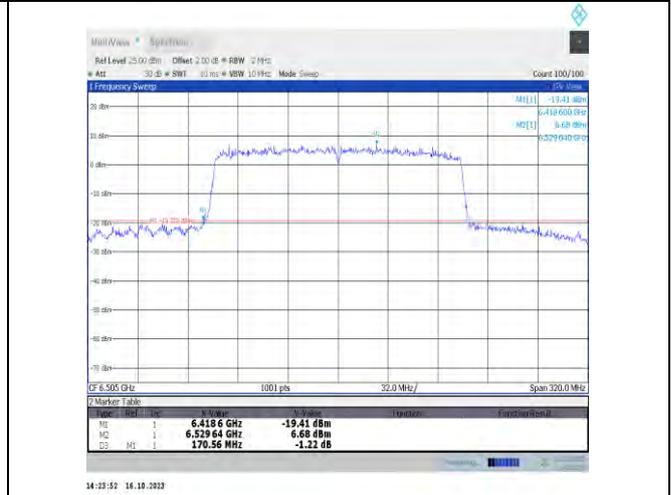
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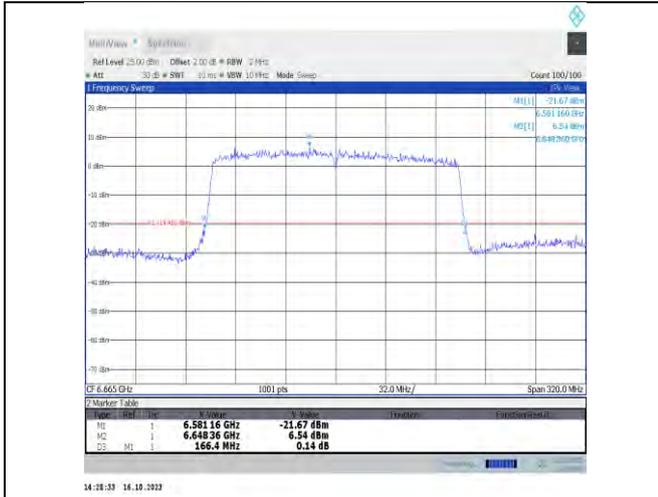


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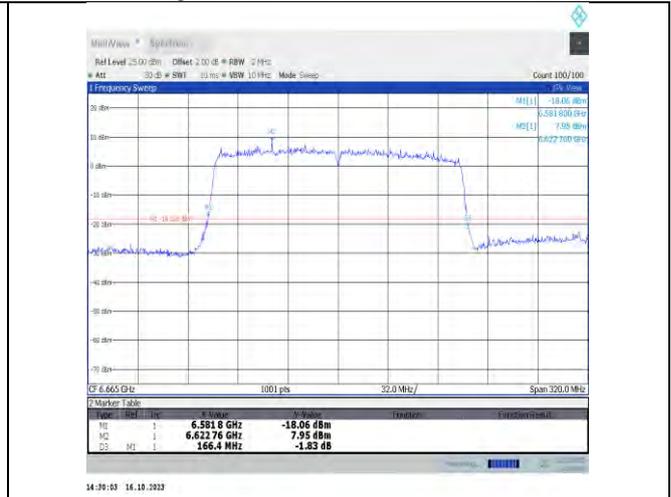


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11ax160MIMO-Ant0-6665



11ax160MIMO-Ant1-6665



11ax160MIMO-Ant0-6825



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**Occupied channel bandwidth
Test Result**

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|------------|---------|----------------|-----------|-----------|-----------|------------|---------|
| 11a-CDD | Ant0 | 5955 | 16.658 | 5946.6224 | 5963.2800 | ≤320 | PASS |
| 11a-CDD | Ant1 | 5955 | 16.691 | 5946.6532 | 5963.3440 | ≤320 | PASS |
| 11a-CDD | Ant0 | 6175 | 16.736 | 6166.5934 | 6183.3298 | ≤320 | PASS |
| 11a-CDD | Ant1 | 6175 | 16.633 | 6166.6936 | 6183.3267 | ≤320 | PASS |
| 11a-CDD | Ant0 | 6415 | 16.678 | 6406.6573 | 6423.3354 | ≤320 | PASS |
| 11a-CDD | Ant1 | 6415 | 16.688 | 6406.6451 | 6423.3326 | ≤320 | PASS |
| 11a-CDD | Ant0 | 6435 | 16.687 | 6426.6476 | 6443.3351 | ≤320 | PASS |
| 11a-CDD | Ant1 | 6435 | 16.732 | 6426.5942 | 6443.3260 | ≤320 | PASS |
| 11a-CDD | Ant0 | 6475 | 16.738 | 6466.5865 | 6483.3241 | ≤320 | PASS |
| 11a-CDD | Ant1 | 6475 | 16.728 | 6466.5969 | 6483.3250 | ≤320 | PASS |
| 11a-CDD | Ant0 | 6515 | 16.709 | 6506.6040 | 6523.3134 | ≤320 | PASS |
| 11a-CDD | Ant1 | 6515 | 16.68 | 6506.6407 | 6523.3207 | ≤320 | PASS |
| 11a-CDD | Ant0 | 6535 | 16.694 | 6526.6332 | 6543.3271 | ≤320 | PASS |
| 11a-CDD | Ant1 | 6535 | 16.683 | 6526.6329 | 6543.3162 | ≤320 | PASS |
| 11a-CDD | Ant0 | 6695 | 16.675 | 6686.6407 | 6703.3160 | ≤320 | PASS |
| 11a-CDD | Ant1 | 6695 | 16.698 | 6686.5959 | 6703.2943 | ≤320 | PASS |
| 11a-CDD | Ant0 | 6855 | 16.682 | 6846.6226 | 6863.3042 | ≤320 | PASS |
| 11a-CDD | Ant1 | 6855 | 16.68 | 6846.6163 | 6863.2967 | ≤320 | PASS |
| 11a-CDD | Ant0 | 6875 | 16.67 | 6866.6244 | 6883.2942 | ≤320 | PASS |
| 11a-CDD | Ant1 | 6875 | 16.651 | 6866.6742 | 6883.3252 | ≤320 | PASS |
| 11a-CDD | Ant0 | 6895 | 16.66 | 6886.6376 | 6903.2979 | ≤320 | PASS |
| 11a-CDD | Ant1 | 6895 | 16.659 | 6886.6428 | 6903.3020 | ≤320 | PASS |
| 11a-CDD | Ant0 | 6995 | 16.681 | 6986.5967 | 7003.2774 | ≤320 | PASS |
| 11a-CDD | Ant1 | 6995 | 16.643 | 6986.6524 | 7003.2954 | ≤320 | PASS |
| 11a-CDD | Ant0 | 7115 | 16.623 | 7106.6841 | 7123.3073 | ≤320 | PASS |
| 11a-CDD | Ant1 | 7115 | 16.705 | 7106.5859 | 7123.2905 | ≤320 | PASS |
| 11ax20MIMO | Ant0 | 5955 | 19.105 | 5945.4247 | 5964.5300 | ≤320 | PASS |
| 11ax20MIMO | Ant1 | 5955 | 19.276 | 5945.3437 | 5964.6199 | ≤320 | PASS |
| 11ax20MIMO | Ant0 | 6175 | 19.007 | 6165.4763 | 6184.4832 | ≤320 | PASS |
| 11ax20MIMO | Ant1 | 6175 | 19.14 | 6165.4393 | 6184.5793 | ≤320 | PASS |
| 11ax20MIMO | Ant0 | 6415 | 19.023 | 6405.4799 | 6424.5033 | ≤320 | PASS |
| 11ax20MIMO | Ant1 | 6415 | 19.034 | 6405.4894 | 6424.5237 | ≤320 | PASS |
| 11ax20MIMO | Ant0 | 6435 | 19.024 | 6425.4819 | 6444.5058 | ≤320 | PASS |
| 11ax20MIMO | Ant1 | 6435 | 18.999 | 6425.5035 | 6444.5023 | ≤320 | PASS |
| 11ax20MIMO | Ant0 | 6475 | 19.015 | 6465.4790 | 6484.4941 | ≤320 | PASS |
| 11ax20MIMO | Ant1 | 6475 | 19.004 | 6465.4922 | 6484.4959 | ≤320 | PASS |
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| 11ax20MIMO | Ant1 | 6855 | 19.087 | 6845.4188 | 6864.5059 | ≤320 | PASS |
| 11ax20MIMO | Ant0 | 6875 | 19.078 | 6865.4306 | 6884.5088 | ≤320 | PASS |
| 11ax20MIMO | Ant1 | 6875 | 19.086 | 6865.4199 | 6884.5055 | ≤320 | PASS |
| 11ax20MIMO | Ant0 | 6895 | 19.068 | 6885.4427 | 6904.5103 | ≤320 | PASS |
| 11ax20MIMO | Ant1 | 6895 | 19.079 | 6885.4325 | 6904.5114 | ≤320 | PASS |
| 11ax20MIMO | Ant0 | 6995 | 19.088 | 6985.4134 | 7004.5011 | ≤320 | PASS |
| 11ax20MIMO | Ant1 | 6995 | 19.086 | 6985.4395 | 7004.5252 | ≤320 | PASS |



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| | | | | | | | |
|-------------|------|------|---------|-----------|-----------|------|------|
| 11ax20MIMO | Ant0 | 7115 | 19.043 | 7105.4441 | 7124.4872 | ≤320 | PASS |
| 11ax20MIMO | Ant1 | 7115 | 19.134 | 7105.4191 | 7124.5534 | ≤320 | PASS |
| 11ax40MIMO | Ant0 | 5965 | 37.92 | 5945.9439 | 5983.8635 | ≤320 | PASS |
| 11ax40MIMO | Ant1 | 5965 | 37.961 | 5946.0241 | 5983.9847 | ≤320 | PASS |
| 11ax40MIMO | Ant0 | 6165 | 37.79 | 6146.0345 | 6183.8241 | ≤320 | PASS |
| 11ax40MIMO | Ant1 | 6165 | 37.825 | 6146.0078 | 6183.8325 | ≤320 | PASS |
| 11ax40MIMO | Ant0 | 6405 | 37.825 | 6386.0271 | 6423.8518 | ≤320 | PASS |
| 11ax40MIMO | Ant1 | 6405 | 37.794 | 6386.1513 | 6423.9455 | ≤320 | PASS |
| 11ax40MIMO | Ant0 | 6445 | 37.805 | 6426.1741 | 6463.9795 | ≤320 | PASS |
| 11ax40MIMO | Ant1 | 6445 | 37.844 | 6426.0859 | 6463.9301 | ≤320 | PASS |
| 11ax40MIMO | Ant0 | 6485 | 37.853 | 6466.0946 | 6503.9473 | ≤320 | PASS |
| 11ax40MIMO | Ant1 | 6485 | 37.801 | 6466.0658 | 6503.8665 | ≤320 | PASS |
| 11ax40MIMO | Ant0 | 6525 | 37.876 | 6506.0865 | 6543.9627 | ≤320 | PASS |
| 11ax40MIMO | Ant1 | 6525 | 37.834 | 6506.1009 | 6543.9353 | ≤320 | PASS |
| 11ax40MIMO | Ant0 | 6565 | 37.852 | 6546.0988 | 6583.9505 | ≤320 | PASS |
| 11ax40MIMO | Ant1 | 6565 | 37.802 | 6546.0909 | 6583.8928 | ≤320 | PASS |
| 11ax40MIMO | Ant0 | 6685 | 37.861 | 6666.0033 | 6703.8648 | ≤320 | PASS |
| 11ax40MIMO | Ant1 | 6685 | 37.875 | 6665.9891 | 6703.8638 | ≤320 | PASS |
| 11ax40MIMO | Ant0 | 6845 | 37.89 | 6825.9938 | 6863.8842 | ≤320 | PASS |
| 11ax40MIMO | Ant1 | 6845 | 37.97 | 6825.9586 | 6863.9291 | ≤320 | PASS |
| 11ax40MIMO | Ant0 | 6885 | 37.898 | 6865.9888 | 6903.8868 | ≤320 | PASS |
| 11ax40MIMO | Ant1 | 6885 | 37.891 | 6865.9872 | 6903.8779 | ≤320 | PASS |
| 11ax40MIMO | Ant0 | 6925 | 37.871 | 6905.9860 | 6943.8567 | ≤320 | PASS |
| 11ax40MIMO | Ant1 | 6925 | 37.912 | 6906.0165 | 6943.9285 | ≤320 | PASS |
| 11ax40MIMO | Ant0 | 6965 | 37.889 | 6945.9725 | 6983.8618 | ≤320 | PASS |
| 11ax40MIMO | Ant1 | 6965 | 37.912 | 6945.9523 | 6983.8647 | ≤320 | PASS |
| 11ax40MIMO | Ant0 | 7085 | 37.877 | 7065.9517 | 7103.8283 | ≤320 | PASS |
| 11ax40MIMO | Ant1 | 7085 | 38.037 | 7065.9295 | 7103.9662 | ≤320 | PASS |
| 11ax80MIMO | Ant0 | 5985 | 77.348 | 5946.1321 | 6023.4798 | ≤320 | PASS |
| 11ax80MIMO | Ant1 | 5985 | 77.462 | 5946.2116 | 6023.6734 | ≤320 | PASS |
| 11ax80MIMO | Ant0 | 6145 | 77.336 | 6106.1263 | 6183.4625 | ≤320 | PASS |
| 11ax80MIMO | Ant1 | 6145 | 77.699 | 6106.1788 | 6183.8782 | ≤320 | PASS |
| 11ax80MIMO | Ant0 | 6385 | 77.337 | 6346.2438 | 6423.5805 | ≤320 | PASS |
| 11ax80MIMO | Ant1 | 6385 | 77.384 | 6346.2522 | 6423.6363 | ≤320 | PASS |
| 11ax80MIMO | Ant0 | 6465 | 77.457 | 6426.0639 | 6503.5211 | ≤320 | PASS |
| 11ax80MIMO | Ant1 | 6465 | 77.224 | 6426.5442 | 6503.7679 | ≤320 | PASS |
| 11ax80MIMO | Ant0 | 6545 | 77.287 | 6506.2805 | 6583.5671 | ≤320 | PASS |
| 11ax80MIMO | Ant1 | 6545 | 77.264 | 6506.4263 | 6583.6901 | ≤320 | PASS |
| 11ax80MIMO | Ant0 | 6625 | 77.355 | 6586.1660 | 6663.5207 | ≤320 | PASS |
| 11ax80MIMO | Ant1 | 6625 | 77.35 | 6586.1984 | 6663.5480 | ≤320 | PASS |
| 11ax80MIMO | Ant0 | 6705 | 77.477 | 6666.0466 | 6743.5235 | ≤320 | PASS |
| 11ax80MIMO | Ant1 | 6705 | 77.527 | 6666.0387 | 6743.5655 | ≤320 | PASS |
| 11ax80MIMO | Ant0 | 6785 | 77.685 | 6746.0677 | 6823.7523 | ≤320 | PASS |
| 11ax80MIMO | Ant1 | 6785 | 77.376 | 6746.2496 | 6823.6257 | ≤320 | PASS |
| 11ax80MIMO | Ant0 | 6865 | 77.469 | 6826.2070 | 6903.6762 | ≤320 | PASS |
| 11ax80MIMO | Ant1 | 6865 | 77.462 | 6826.2481 | 6903.7105 | ≤320 | PASS |
| 11ax80MIMO | Ant0 | 6945 | 77.415 | 6906.1904 | 6983.6054 | ≤320 | PASS |
| 11ax80MIMO | Ant1 | 6945 | 77.541 | 6906.1465 | 6983.6879 | ≤320 | PASS |
| 11ax80MIMO | Ant0 | 7025 | 77.416 | 6986.1160 | 7063.5319 | ≤320 | PASS |
| 11ax80MIMO | Ant1 | 7025 | 77.369 | 6986.1329 | 7063.5018 | ≤320 | PASS |
| 11ax160MIMO | Ant0 | 6025 | 157.018 | 5945.9044 | 6102.9221 | ≤320 | PASS |
| 11ax160MIMO | Ant1 | 6025 | 156.774 | 5945.9950 | 6102.7695 | ≤320 | PASS |
| 11ax160MIMO | Ant0 | 6185 | 156.726 | 6105.7933 | 6262.5191 | ≤320 | PASS |
| 11ax160MIMO | Ant1 | 6185 | 156.572 | 6105.8849 | 6262.4567 | ≤320 | PASS |
| 11ax160MIMO | Ant0 | 6345 | 156.143 | 6265.9745 | 6422.1177 | ≤320 | PASS |
| 11ax160MIMO | Ant1 | 6345 | 156.118 | 6266.0249 | 6422.1429 | ≤320 | PASS |



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| | | | | | | | |
|-------------|------|------|---------|-----------|-----------|------|------|
| 11ax160MIMO | Ant0 | 6505 | 157.097 | 6425.8584 | 6582.9553 | ≤320 | PASS |
| 11ax160MIMO | Ant1 | 6505 | 157.789 | 6426.0201 | 6583.8091 | ≤320 | PASS |
| 11ax160MIMO | Ant0 | 6665 | 156.924 | 6586.2527 | 6743.1768 | ≤320 | PASS |
| 11ax160MIMO | Ant1 | 6665 | 156.978 | 6586.2707 | 6743.2483 | ≤320 | PASS |
| 11ax160MIMO | Ant0 | 6825 | 157.298 | 6746.6025 | 6903.9003 | ≤320 | PASS |
| 11ax160MIMO | Ant1 | 6825 | 157.119 | 6746.7258 | 6903.8445 | ≤320 | PASS |
| 11ax160MIMO | Ant0 | 6985 | 156.759 | 6906.0624 | 7062.8215 | ≤320 | PASS |
| 11ax160MIMO | Ant1 | 6985 | 157.923 | 6905.8585 | 7063.7817 | ≤320 | PASS |

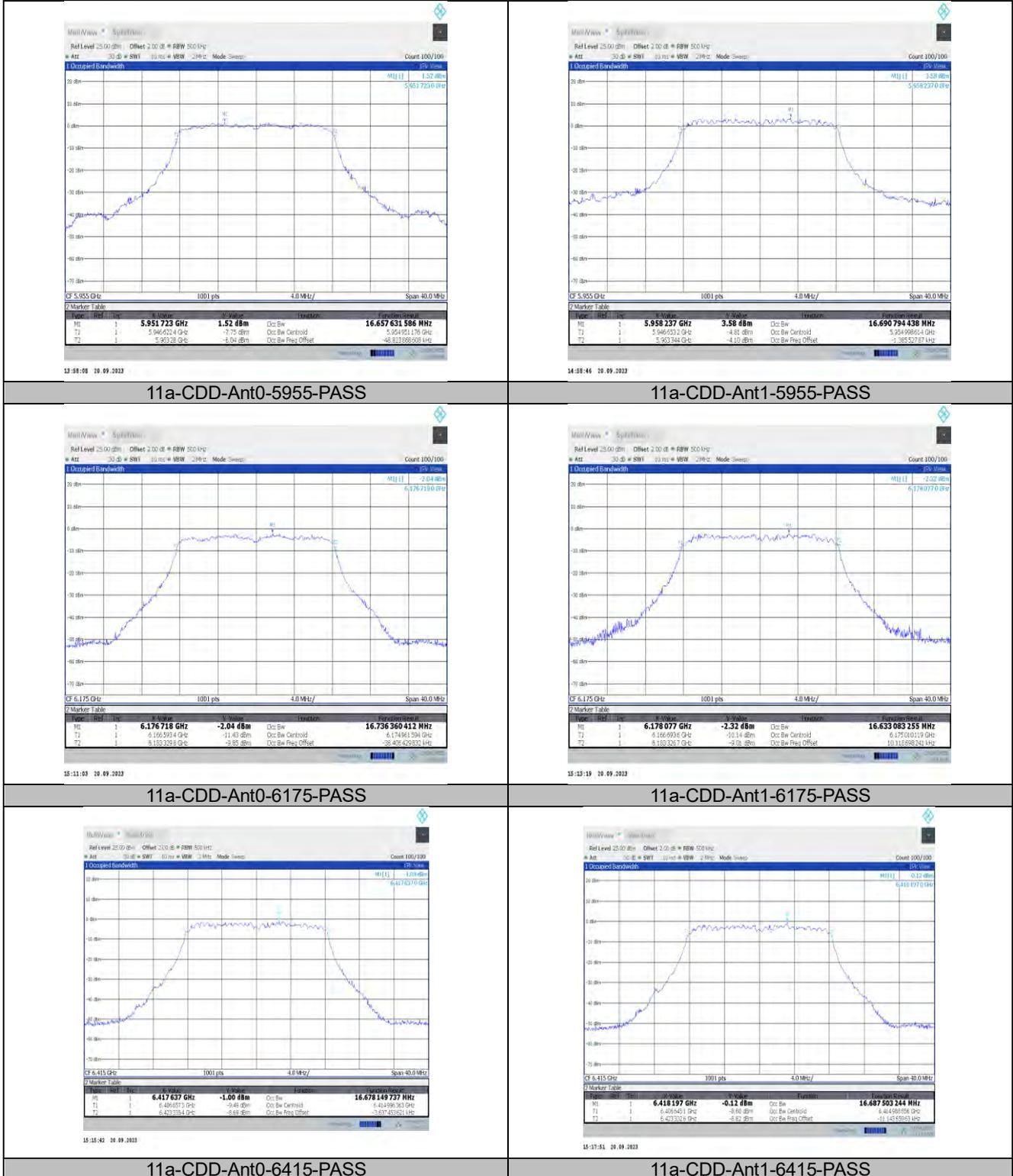


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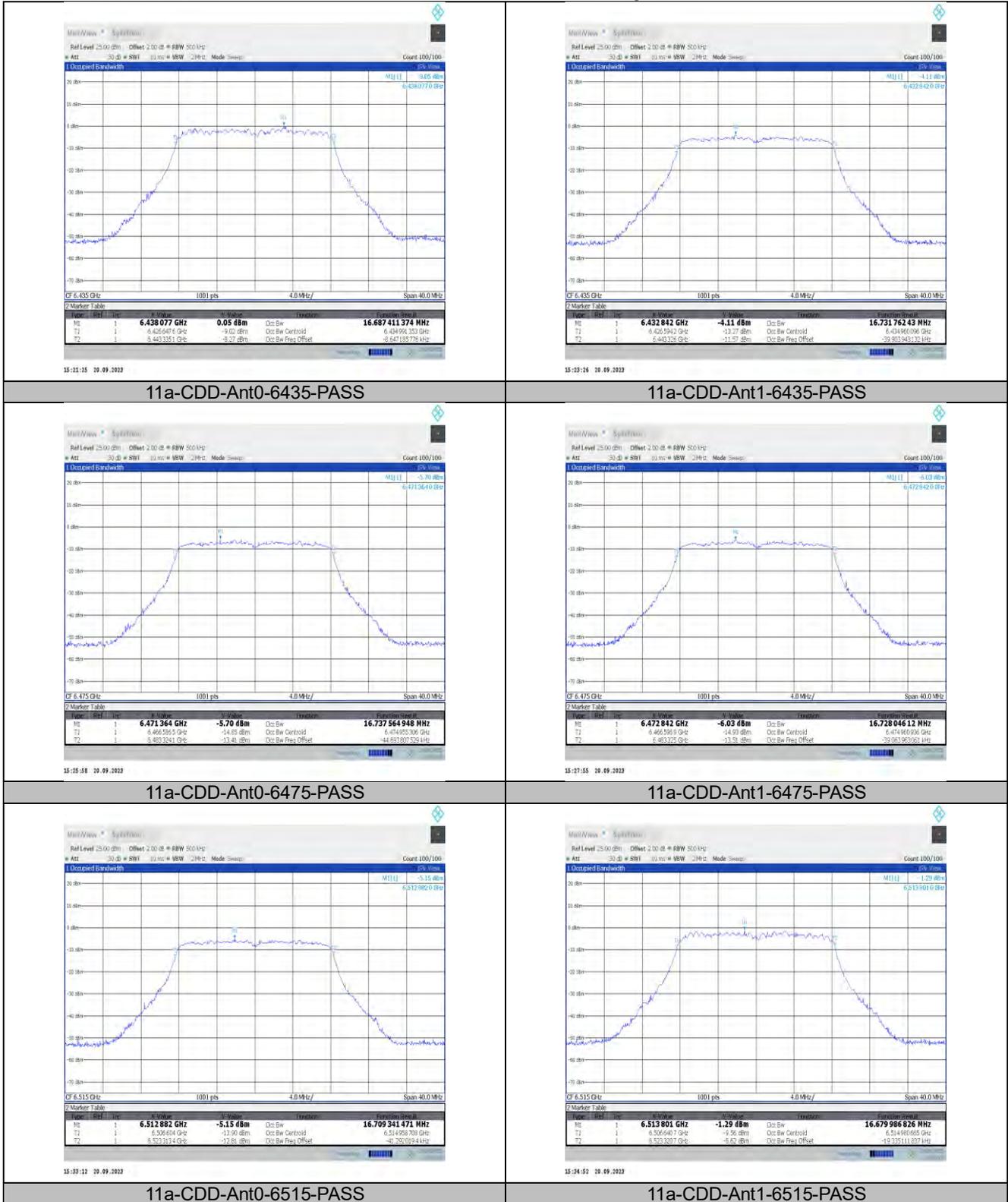
Test Graphs



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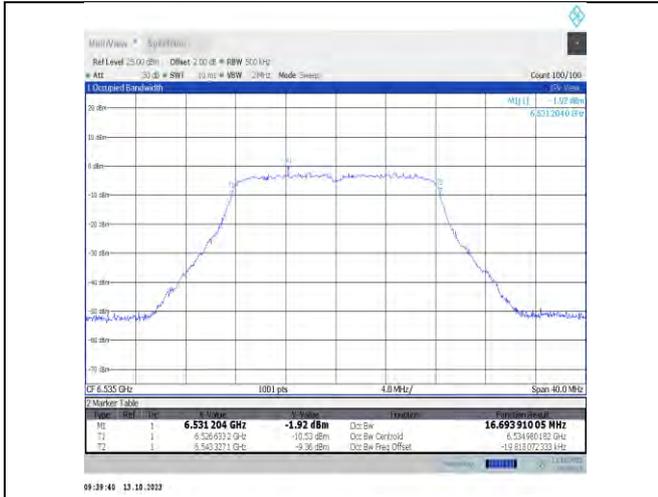
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11a-CDD-Ant0-6535-PASS



11a-CDD-Ant1-6535-PASS



11a-CDD-Ant0-6695-PASS



11a-CDD-Ant1-6695-PASS



11a-CDD-Ant0-6855-PASS



11a-CDD-Ant1-6855-PASS



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11a-CDD-Ant1-6875-PASS



11a-CDD-Ant0-6895-PASS



11a-CDD-Ant1-6895-PASS



11a-CDD-Ant0-6995-PASS



11a-CDD-Ant1-6995-PASS

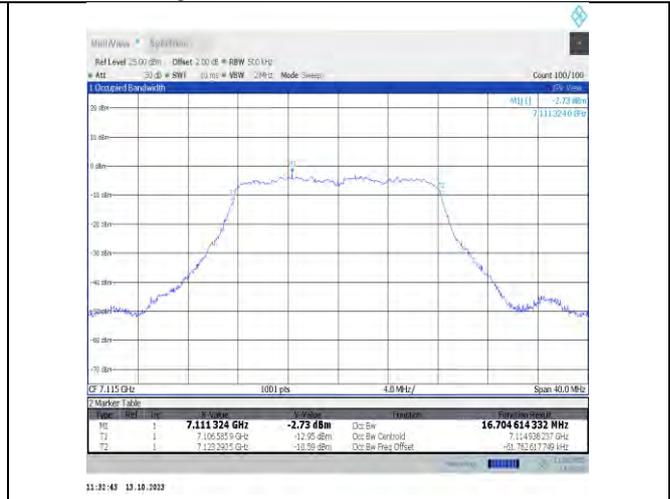


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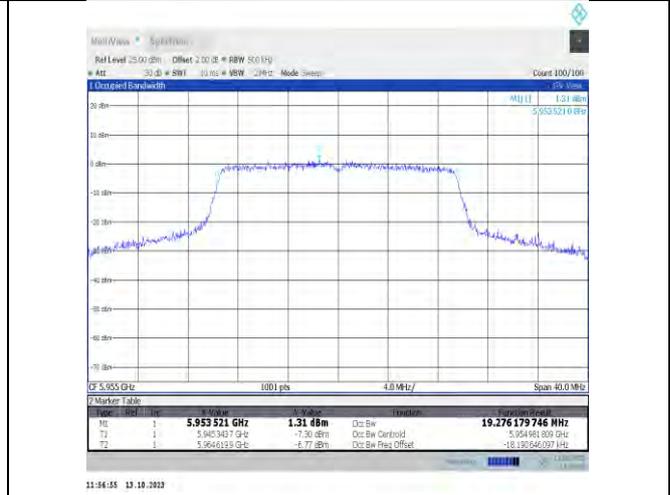
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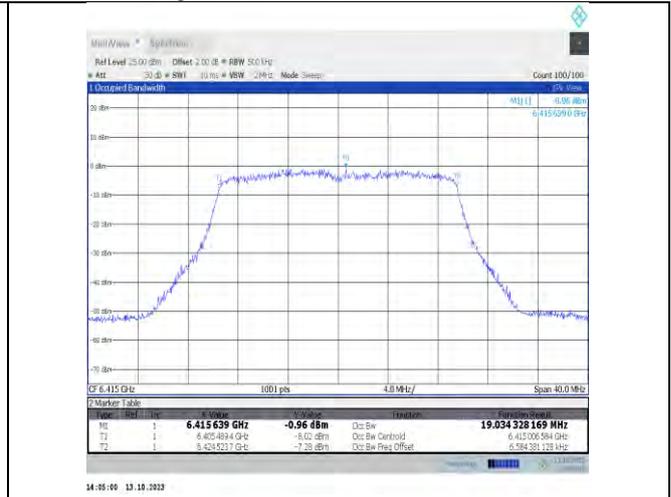


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11ax20MIMO-Ant1-6415-PASS



11ax20MIMO-Ant0-6435-PASS



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11ax20MIMO-Ant0-6475-PASS



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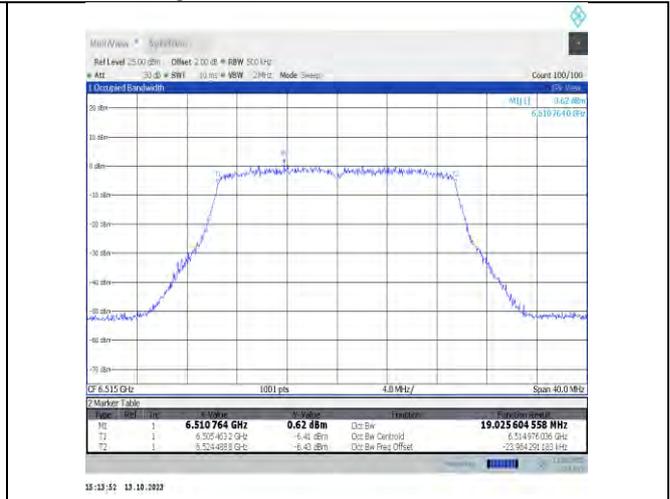


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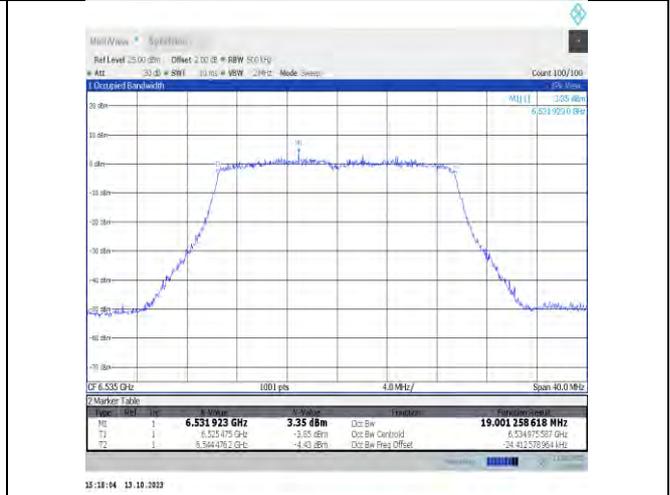
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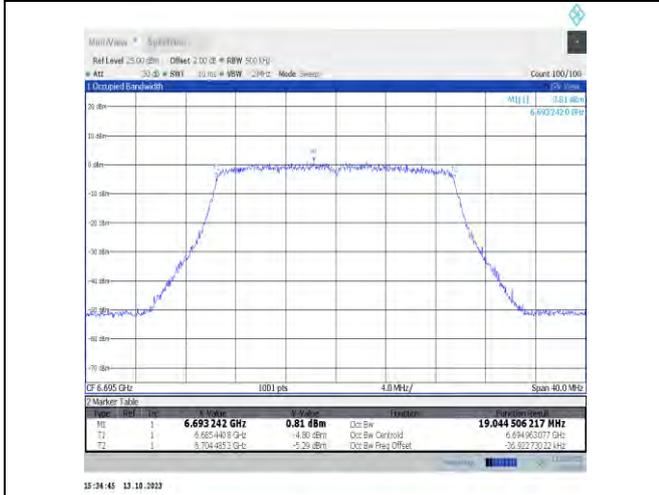
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11ax20MIMO-Ant0-6695-PASS

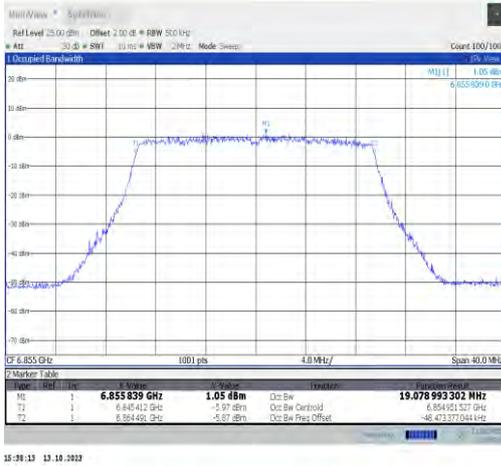


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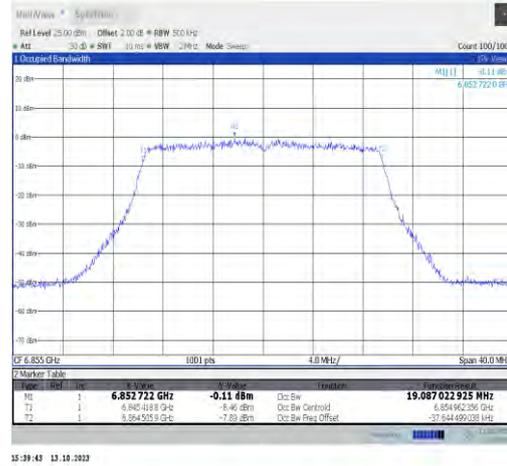


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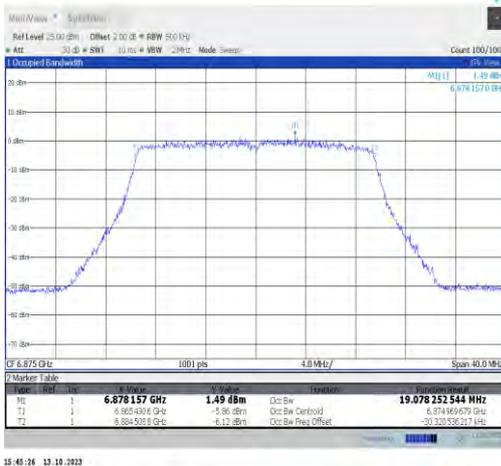
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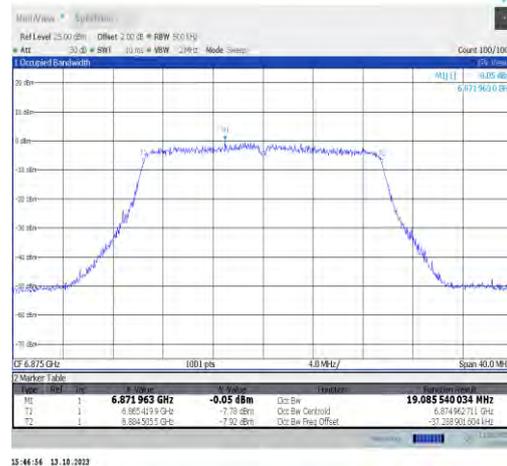
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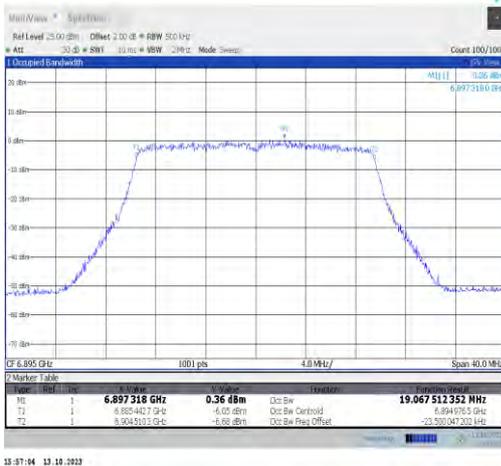
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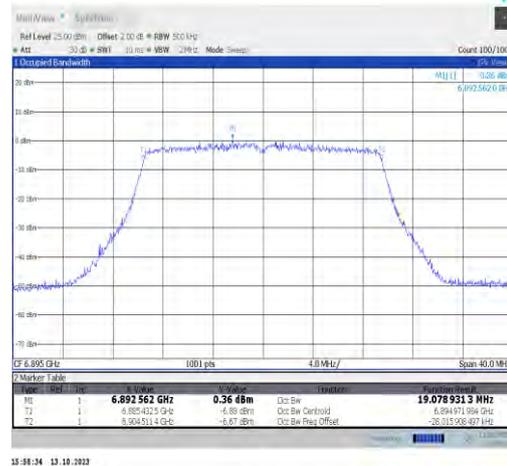
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11ax20MIMO-Ant1-6875-PASS



11ax20MIMO-Ant0-6895-PASS

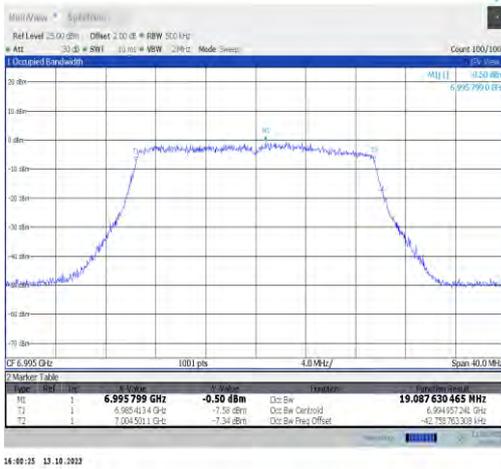


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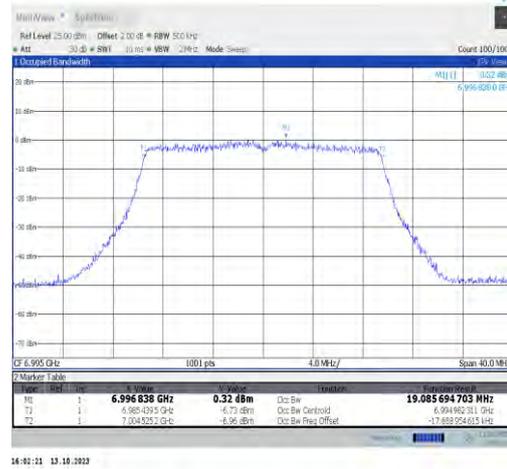


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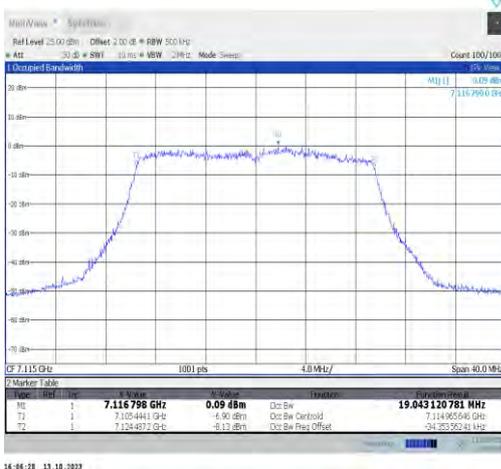
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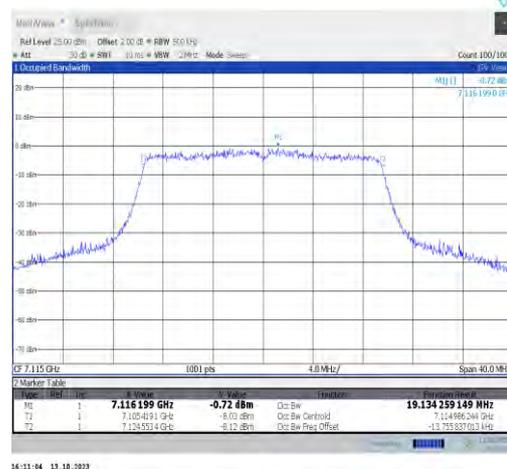
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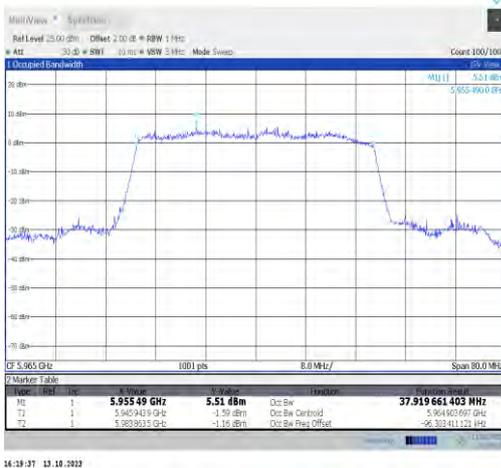
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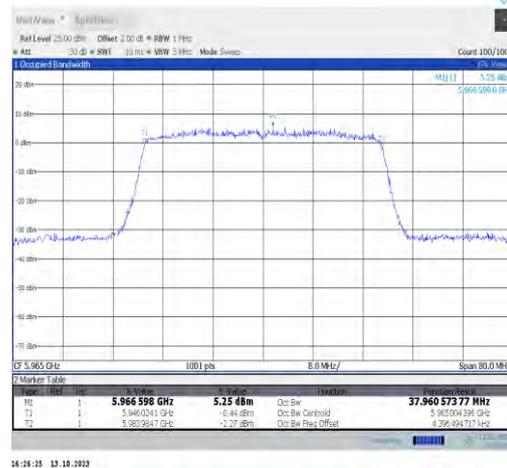
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11ax40MIMO-Ant0-5965-PASS



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