

## ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



**EUT Description:** ClickShare  
**Applicant:** Barco NV  
**Manufacturer:** President Kennedypark 35 8500 Kortrijk Belgium  
**Brand Name:** Barco NV  
**Model No.:** CSBTN005  
**Report Number:** TERF2505001675ER  
**FCC ID** 2AAED-CSBTN005  
**Date of EUT Received:** N/A, the test results are fully leveraged from test report number TERF2505001682ER, for more details please refer to section 3 in this report.  
**Date of Test:** N/A, the test results are fully leveraged from test report number TERF2505001682ER, for more details please refer to section 3 in this report.  
**Issue Date:** July 2, 2025

*Jim Chang*  
**Approved By** \_\_\_\_\_

**Jim Chang**

### We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407.

The results of this report relate only to the sample identified in this report.

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## Revision History

| Report Number    | Revision | Description | Issue Date   | Revised By | Remark |
|------------------|----------|-------------|--------------|------------|--------|
| TERF2505001675ER | 00       | Original    | July 2, 2025 | Susan Lin  |        |
|                  |          |             |              |            |        |
|                  |          |             |              |            |        |
|                  |          |             |              |            |        |
|                  |          |             |              |            |        |
|                  |          |             |              |            |        |
|                  |          |             |              |            |        |

**Note:**

- 1、The remark "\*" indicates modification of the report upon requests from certification body.

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## 1 GENERAL INFORMATION

### 1.1 Product Description

|                                  |   |
|----------------------------------|---|
| EUT Description:                 | ClickShare                                    |
| Brand Name:                      | Barco   |
| Model No.:                       | CSBTN005                                      |
| Hardware Version:                | Barco_Furitesse_DVT2_PLS0000000061_20250214_1 |
| Firmware Version:                | 5.15.47-mtk+g-usi-v2.4-87e4e4a45d60           |
| EUT Series No.:                  | 1200602574, 1200602587, 1200602570            |
| Power Supply:                    | 5 Vdc from USB port                           |
| Test Software<br>(Name/Version): | default (myftm command)                       |

### 1.2 Modulation & Data Rate

|                  |  |
|------------------|--|
| Modulation type: | 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK<br>for OFDMA in 802.11ax |
| Transition Rate: | 802.11ax_HE20: up to 286.8 Mbps                                    |
|                  | 802.11ax_HE40: up to 573.6 Mbps                                    |
|                  | 802.11ax_HE80: up to 1201 Mbps                                     |
|                  | 802.11ax_HE160: up to 2402 Mbps                                    |
|                  |  |

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### 1.3 Antenna Designation

| Antenna Type | Supplier | Antenna No. | Antenna Part No. | Freq. (MHz) | Peak Antenna Gain (dBi) |
|--------------|----------|-------------|------------------|-------------|-------------------------|
| PIFA         | USI      | ANT 1       | US5990-12-002-C  | 5925-6425   | 2.9                     |
|              |          |             |                  | 6425-6525   | 2.29                    |
|              |          |             |                  | 6525-6875   | 2.56                    |
|              |          |             |                  | 6875-7125   | 2.49                    |
|              | USI      | ANT 2       | US5990-12-001-C  | 5925-6425   | 1.78                    |
|              |          |             |                  | 6425-6525   | 1.41                    |
|              |          |             |                  | 6525-6875   | 1.67                    |
|              |          |             |                  | 6875-7125   | 1.76                    |

**Note:**

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

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## 1.4 Rated Power

### WLAN 6E

| Mode           | Frequency Range | Channels | Rated Power(EIRP)<br>(dBm) (Worst Case) |
|----------------|-----------------|----------|---|
| 802.11ax_HE20  | 5955~6415       | 24       | 7.17 dBm                                |
|                | 6435~6515       | 5        | 6.74 dBm                                |
|                | 6535~6875       | 18       | 7.06 dBm                                |
|                | 6895~7095       | 11       | 7.06 dBm                                |
| 802.11ax_HE40  | 5965~6405       | 12       | 9.82 dBm                                |
|                | 6445~6525       | 3        | 9.38 dBm                                |
|                | 6565~6845       | 8        | 10.28 dBm                               |
|                | 6885~7085       | 6        | 9.58 dBm                                |
| 802.11ax_HE80  | 5985~6385       | 6        | 11.82 dBm                               |
|                | 6465            | 1        | 10.93 dBm                               |
|                | 6545~6865       | 5        | 13.30 dBm                               |
|                | 6945~7025       | 2        | 12.08 dBm                               |
| 802.11ax_HE160 | 6025~6345       | 3        | 14.91 dBm                               |
|                | 6505            | 1        | 13.42 dBm                               |
|                | 6665~6825       | 2        | 14.68 dBm                               |
|                | 6985            | 1        | 14.04 dBm                               |

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## 1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v02r01

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

## 1.6 Test Facility

| Laboratory  | Test Site Address   | Test Site Name   | FCC Designation number | IC CAB identifier |
|---|---|--|------------------------|-------------------|
| SGS Taiwan Ltd.<br>Central RF Lab.<br>(TAF code 3702) | No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. | SAC 1<br>SAC 2<br>SAC 3<br>Conduction 1<br>Conducted 1<br>Conducted 2<br>Conducted 3<br>Conducted 4<br>Conducted 5<br>Conducted 6                | TW0027                 |                   |
|   | No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333                            | Conduction C<br>SAC C<br>SAC D<br>SAC G<br>Conducted A<br>Conducted B<br>Conducted C<br>Conducted D<br>Conducted E<br>Conducted F<br>Conducted G | TW3702                 | TW0028            |

**Note:** Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

|                |             |    |                    |            |   |
|----------------|-------------|----|--------------------|------------|---|
| Temperature:   | 19-23       | °C | Relative Humidity: | 58-85      | % |
| Test site      | Conducted 2 |    | Test Start:        | 05/14/2025 |   |
| Test Engineer: | Dannis Chen |    | Test Done:         | 06/12/2025 |   |

## 1.7 Special Accessories

There are no special accessories used while test was conducted.

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## 1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

#### 2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

#### 2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

#### 2.3.4 CBP Test

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer and signal generator and companion device to perform the test.

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## 2.4 Measurement Results Explanation Example

### 2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

### 2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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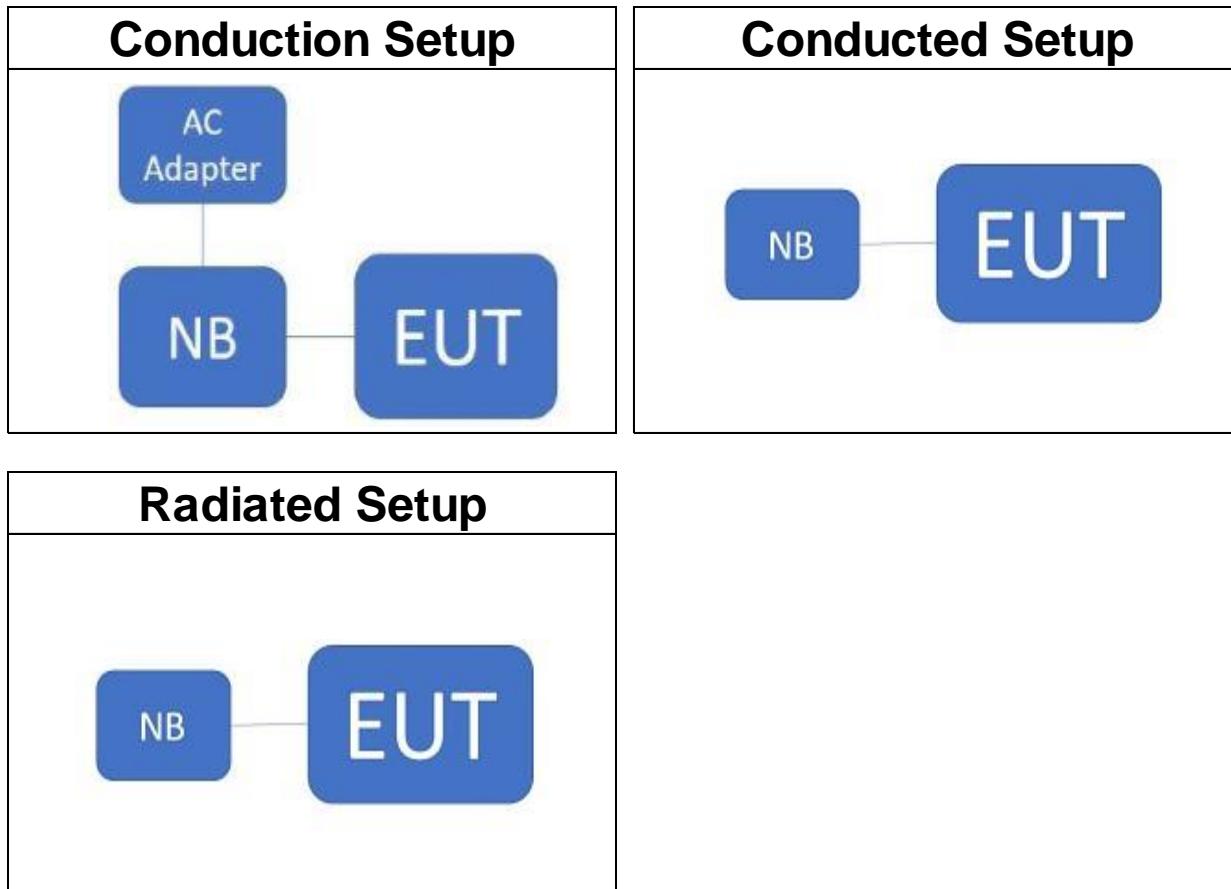
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## 2.5 Test Configuration



## 2.6 Control Unit(s)

| AC Power-Line Conducted Emission Test Site: Conduction 1 |     |              |               |                           |                          |
|--|-----|--------------|---------------|---------------------------|--------------------------|
| EQUIPMENT TYPE   | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| AC Adapter   | HP  | TPN-AA06     | N/A           | N/A                       | N/A                      |
| Notebook   | HP  | HSN-Q35C-4   | 5CD2428X3N    | N/A                       | N/A                      |

| Conducted Emission Test Site: Conducted 2 |        |              |                  |                           |                          |
|---|--------|--------------|------------------|---------------------------|--------------------------|
| EQUIPMENT TYPE                            | MFR    | MODEL NUMBER | SERIAL NUMBER    | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| Notebook                                  | Lenovo | L480         | PF-1M4D8L 19-/03 | N/A                       | N/A                      |

| Radiated Emission Test Site: SAC 3 |     |              |               |                           |                          |
|------------------------------------|-----|--------------|---------------|---------------------------|--------------------------|
| EQUIPMENT TYPE                     | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| Notebook                           | HP  | HSN-Q35C-4   | 5CD2428X3N    | N/A                       | N/A                      |

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### 3 SUMMARY OF TEST RESULT

| FCC Rules   | Description Of Test  | Result                                      | Note |
|---|--|---|------|
| §15.207   | AC Power Line Conducted Emission                                     | Compliant                                   |      |
| §15.407(a)(11)<br>§2.1049                               | Emission Bandwidth   | Compliant                                   |      |
| §15.407(a)(4~9)   | Maximum Conducted Output Power                                       | Compliant                                   |      |
| §15.407(a)(4~9)   | Power Spectral Density   | Compliant                                   |      |
| §15.407(b)(7),(11)                                      | In-band emission   | Compliant                                   |      |
| §15.205<br>§15.209<br>§15.407(b)(6),<br>(b)(8),(9),(10) | Undesirable Radiated Emissions                                       | Compliant                                   |      |
| §15.407(d)(6)   | contention-based protocol  | Compliant                                   |      |
| §15.407(a)(7)(8)  | Test Demonstration of Proper Power Adjustment based on Associated AP | NA<br>Device only associates with indoor AP |      |
| §15.407(c)  | Transmission in case of Absence of Information                       | Compliant                                   |      |
| §15.203   | Antenna Requirement  | Compliant                                   |      |

#### Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2505001682ER.

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## 4 DESCRIPTION OF TEST MODES

### 4.1 Operating Frequencies

UNII-5 5925~6425 MHz

| 20MHz |             |    |             |
|-------|-------------|----|-------------|
| CH    | Freq. (MHz) | CH | Freq. (MHz) |
| 1     | 5955        | 49 | 6195        |
| 5     | 5975        | 53 | 6215        |
| 9     | 5995        | 57 | 6235        |
| 13    | 6015        | 61 | 6255        |
| 17    | 6035        | 65 | 6275        |
| 21    | 6055        | 69 | 6295        |
| 25    | 6075        | 73 | 6315        |
| 29    | 6095        | 77 | 6335        |
| 33    | 6115        | 81 | 6355        |
| 37    | 6135        | 85 | 6375        |
| 41    | 6155        | 89 | 6395        |
| 45    | 6175        | 93 | 6415        |

| 40MHz |             |
|-------|-------------|
| CH    | Freq. (MHz) |
| 3     | 5965        |
| 11    | 6005        |
| 19    | 6045        |
| 27    | 6085        |
| 35    | 6125        |
| 43    | 6165        |
| 51    | 6205        |
| 59    | 6245        |
| 67    | 6285        |
| 75    | 6325        |
| 83    | 6365        |
| 91    | 6405        |

| 80MHz |             |
|-------|-------------|
| CH    | Freq. (MHz) |
| 7     | 5985        |
| 23    | 6065        |
| 39    | 6145        |
| 55    | 6225        |
| 71    | 6305        |
| 87    | 6385        |

| 160MHz |             |
|--------|-------------|
| CH     | Freq. (MHz) |
| 15     | 6025        |
| 47     | 6185        |
| 79     | 6345        |

UNII-6 6425~6525 MHz

| 20MHz |             |
|-------|-------------|
| CH    | Freq. (MHz) |
| 97    | 6435        |
| 101   | 6455        |
| 105   | 6475        |
| 109   | 6495        |
| 113   | 6515        |

| 40MHz |             |
|-------|-------------|
| CH    | Freq. (MHz) |
| 103   | 6465        |

| 80MHz |             |
|-------|-------------|
| CH    | Freq. (MHz) |
| 111   | 6505        |

| 160MHz |             |
|--------|-------------|
| CH     | Freq. (MHz) |
| 111    | 6505        |

UNII-7 6525~6875 MHz

| 20MHz |             |     |             |
|-------|-------------|-----|-------------|
| CH    | Freq. (MHz) | CH  | Freq. (MHz) |
| 117   | 6535        | 153 | 6715        |
| 121   | 6555        | 157 | 6735        |
| 125   | 6575        | 161 | 6755        |
| 129   | 6595        | 165 | 6775        |
| 133   | 6615        | 169 | 6795        |
| 137   | 6635        | 173 | 6815        |
| 141   | 6655        | 177 | 6835        |
| 145   | 6675        | 181 | 6855        |
| 149   | 6695        | 185 | 6875        |

| 40MHz |       |
|-------|-------|
| CH    | Freq. |
| 123   | 6565  |
| 131   | 6605  |
| 139   | 6645  |
| 147   | 6685  |
| 155   | 6725  |
| 163   | 6765  |
| 171   | 6805  |
| 179   | 6845  |

| 80MHz |             |
|-------|-------------|
| CH    | Freq. (MHz) |
| 119   | 6545        |
| 135   | 6625        |
| 151   | 6705        |
| 167   | 6785        |
| 183   | 6865        |

| 160MHz |             |
|--------|-------------|
| CH     | Freq. (MHz) |
| 143    | 6665        |
| 175    | 6825        |

UNII-8 6875~7125 MHz

| 20MHz |             |
|-------|-------------|
| CH    | Freq. (MHz) |
| 189   | 6895        |
| 193   | 6915        |
| 197   | 6935        |
| 201   | 6955        |
| 205   | 6975        |
| 209   | 6995        |
| 213   | 7015        |
| 217   | 7035        |
| 221   | 7055        |
| 225   | 7075        |
| 229   | 7095        |

| 40MHz |             |
|-------|-------------|
| CH    | Freq. (MHz) |
| 187   | 6885        |
| 195   | 6925        |
| 203   | 6965        |
| 211   | 7005        |
| 219   | 7045        |
| 227   | 7085        |

| 80MHz |             |
|-------|-------------|
| CH    | Freq. (MHz) |
| 199   | 6945        |
| 207   | 6985        |

| 160MHz |             |
|--------|-------------|
| CH     | Freq. (MHz) |
| 207    | 6985        |

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## 4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

The given UE is pre-scanned among below modes.

| Mode |           | Transmission Chain |     |   |     |  |     | Single Transmission Spatial |     | Multiple Transmission Spatial |     |
|------|-----------|--------------------|-----|---|-----|--|-----|-----------------------------|-----|-------------------------------|-----|
| V    | 802.11 a  | V                  | Ch0 | V | Ch1 |  | Ch2 |                             | Ch3 |                               | 1TX |
| V    | 802.11 n  | V                  | Ch0 | V | Ch1 |  | Ch2 |                             | Ch3 |                               | 1TX |
| V    | 802.11 ac | V                  | Ch0 | V | Ch1 |  | Ch2 |                             | Ch3 |                               | 1TX |
| V    | 802.11 ax | V                  | Ch0 | V | Ch1 |  | Ch2 |                             | Ch3 |                               | 1TX |
|      | 802.11 be |                    | Ch0 |   | Ch1 |  | Ch2 |                             | Ch3 |                               | 1TX |
|      |           |                    |     |   |     |  |     |                             |     |                               | 2TX |

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

| CONDUCTED TEST |                      |                   |                     |            |  |                  |              |
|----------------|----------------------|-------------------|---------------------|------------|--|------------------|--------------|
| MODE           | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL      | MODULATION | RU CONFIGURATION                                     | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11ax_HE20  | 5955~6415            | 1 to 93           | 1,45,93             | OFDMA      | FULL RU<br>26/0,26/8<br>52/37,52/40<br>106/53,106/54 | MCS0             | 2TX          |
|                | 6435~6515            | 97 to 113         | 97,105,113          |            |  |                  |              |
|                | 6535~6875            | 117 to 185        | 117,149,181,185     |            |  |                  |              |
|                | 6895~7095            | 189 to 229        | 189,209,229         |            |  |                  |              |
| 802.11ax_HE40  | 5965~6405            | 3 to 91           | 3,43,91             | OFDMA      | FULL RU<br>242/61,242/62                             | MCS0             | 2TX          |
|                | 6445~6525            | 99 to 115         | 99,107,115          |            |  |                  |              |
|                | 6565~6845            | 123 to 179        | 123,147,179         |            |  |                  |              |
|                | 6885~7085            | 187 to 227        | 187,195,211,227     |            |  |                  |              |
| 802.11ax_HE80  | 5985~6385            | 7 to 87           | 7,39,87             | OFDMA      | FULL RU<br>484/65,484/66                             | MCS0             | 2TX          |
|                | 6465                 | 103               | 103                 |            |  |                  |              |
|                | 6545~6865            | 119 to 183        | 119,135,151,167,183 |            |  |                  |              |
|                | 6945~7025            | 199 to 215        | 199,215             |            |  |                  |              |
| 802.11ax_HE160 | 6025~6345            | 15 to 79          | 15,47,79            | OFDMA      | FULL RU<br>996/67,996/S67                            | MCS0             | 2TX          |
|                | 6505                 | 111               | 111                 |            |  |                  |              |
|                | 6665~6825            | 143 to 175        | 143,175             |            |  |                  |              |
|                | 6985                 | 207               | 207                 |            |  |                  |              |

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| TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz) |                      |                   |                |            |                  |              |
|---|----------------------|-------------------|----------------|------------|------------------|--------------|
| MODE  | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11ax20                                    | 5955-6415            | 1 to 93           | 45             | OFDMA      | MCS0             | 2Tx          |
|   | 6435-6515            | 97 to 113         | 105            | OFDMA      |                  |              |
|   | 6535-6875            | 117 to 185        | 149            | OFDMA      |                  |              |
|   | 6895-7115            | 189 to 233        | 209            | OFDMA      |                  |              |

| TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz) |                      |                   |                     |            |                  |  |              |
|---|----------------------|-------------------|---------------------|------------|------------------|--|--------------|
| MODE  | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL      | MODULATION | DATA RATE (Mbps) | RU CONFIGURATION                         | ANTENNA PORT |
| 802.11ax20                                    | 5955-6415            | 1 to 93           | 1,45,93             | OFDMA      | MCS0             | full,26/0,52/37,106/53,26/8,52/40,106/54 | 2Tx          |
|   | 6435-6515            | 97 to 113         | 97,105,113          | OFDMA      |                  |  |              |
|   | 6535-6875            | 117 to 185        | 117,149,181         | OFDMA      |                  |  |              |
|   | 6895-7115            | 189 to 233        | 185,189,209,233     | OFDMA      |                  |  |              |
| 802.11ax40                                    | 5955-6415            | 1 to 93           | 3,43,91             | OFDMA      | MCS0             | full,242/61,242/62                       | 2Tx          |
|   | 6435-6515            | 97 to 113         | 99,107              | OFDMA      |                  |  |              |
|   | 6535-6875            | 117 to 185        | 115,123,147,179     | OFDMA      |                  |  |              |
|   | 6895-7115            | 189 to 233        | 187,195,211,227     | OFDMA      |                  |  |              |
| 802.11ax80                                    | 5985-6385            | 7 to 87           | 7,39,87             | OFDMA      | MCS0             | full,484/65,484/66                       | 2Tx          |
|   | 6465                 | 103               | 103                 | OFDMA      |                  |  |              |
|   | 6545-6865            | 119 to 183        | 119,135,151,167,183 | OFDMA      |                  |  |              |
|   | 6945-7025            | 199 to 215        | 199,215             | OFDMA      |                  |  |              |
| 802.11ax160                                   | 6025-6345            | 15 to 79          | 15,47,79            | OFDMA      | MCS0             | full,996/67,996/s67                      | 2Tx          |
|   | 6505                 | 111               | 111                 | OFDMA      |                  |  |              |
|   | 6665-6825            | 143 to 175        | 143,175             | OFDMA      |                  |  |              |
|   | 6985                 | 207               | 207                 | OFDMA      |                  |  |              |

**Note:**

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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## 5 MEASUREMENT UNCERTAINTY

| Test Items                              | Uncertainty |      |    |
|---|-------------|------|----|
| AC Power Line Conducted Emission        | +/-         | 1.54 | dB |
| Emission Bandwidth                      | +/-         | 1.38 | Hz |
| Output Power measurement                | +/-         | 0.97 | dB |
| Peak Power Spectral Density Measurement | +/-         | 0.61 | dB |
| Frequency Stability                     | +/-         | 1.48 | Hz |
| Temperature                             | +/-         | 0.6  | °C |
| Humidity                                | +/-         | 3    | %  |
| DC / AC Power Source                    | +/-         | 1    | %  |

| Radiated Spurious Emission Measurement Uncertainty |     |      |    |
|--|-----|------|----|
| Polarization: Vertical                             | +/- | 1.89 | dB |
|  | +/- | 4.1  | dB |
|  | +/- | 3.37 | dB |
|  | +/- | 3.83 | dB |
| Polarization: Horizontal                           | +/- | 1.89 | dB |
|  | +/- | 4.1  | dB |
|  | +/- | 3.37 | dB |
|  | +/- | 3.83 | dB |
| Radiated Spurious Emission                         | +/- | 2    | dB |
|  | +/- | 1.59 | dB |
|  | +/- | 1.71 | dB |
|  | +/- | 1.64 | dB |
|  | +/- | 3.84 | dB |

**Note:**

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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## 6 MEASUREMENT EQUIPMENT USED

### 6.1 Emission from AC power line

| AC Power-Line Conducted Emission Test Site: Conduction 1 |                       |                      |               |                           |                          |
|--|-----------------------|----------------------|---------------|---------------------------|--------------------------|
| EQUIPMENT TYPE   | MFR                   | MODEL NUMBER         | SERIAL NUMBER | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| Coaxial Cables   | EMC Instruments Corp. | EMCCFD300-BM-BM-3000 | 161207        | 06/22/2024                | 06/21/2025               |
| EMI Test Receiver  | R&S                   | ESCI 7               | 100759        | 08/28/2024                | 08/27/2025               |
| LISN   | SCHWARZBECK           | NSLK 8127            | 1040          | 09/07/2024                | 09/06/2025               |
| Pulse Limiter  | SCHWARZBECK           | VTSD 9561F-N         | 793           | 06/22/2024                | 06/21/2025               |
| Test Software  | Audix                 | e3                   | Ver. 9.210616 | N.C.R                     | N.C.R                    |

### 6.2 Conducted Measurement

| Conducted Emission Test Site: Conducted 2 |          |                     |               |                           |                          |
|---|----------|---------------------|---------------|---------------------------|--------------------------|
| EQUIPMENT TYPE                            | MFR      | MODEL NUMBER        | SERIAL NUMBER | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| EXA Spectrum Analyzer                     | KEYSIGHT | N9010B              | MY59071541    | 07/08/2024                | 07/07/2025               |
| Power Meter                               | Anritsu  | ML2496A             | 2138003       | 10/09/2024                | 10/08/2025               |
| Power Sensor                              | Anritsu  | MA2411B             | 1911393       | 10/09/2024                | 10/08/2025               |
| Power Sensor                              | Anritsu  | MA2411B             | 1911394       | 10/09/2024                | 10/08/2025               |
| Test Software                             | SGS      | Radio Test Software | Ver. 21       | N.C.R                     | N.C.R                    |

### 6.3 Contention based protocol measurement

| Conducted Emission Test Site: Conducted 5 |               |                     |                        |                           |                          |
|---|---------------|---------------------|------------------------|---------------------------|--------------------------|
| EQUIPMENT TYPE                            | MFR           | MODEL NUMBER        | SERIAL NUMBER          | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| DC Block                                  | Mini-Circuits | BLK-18-S+           | 4                      | 12/11/2024                | 12/10/2025               |
| EXA Spectrum Analyzer                     | KEYSIGHT      | N9010B              | MY59071406             | 06/25/2024                | 06/24/2025               |
| Frequency Extender                        | KEYSIGHT      | N5182BX07           | MY59360217             | 03/08/2025                | 03/07/2026               |
| Manual Attenuator                         | HP            | 8494B               | 2812A17605+3308 A22470 | 12/11/2024                | 12/10/2025               |
| Signal Generator                          | KEYSIGHT      | N5182B              | MY59100743             | 03/08/2025                | 03/07/2026               |
| Splitter                                  | RF-Lambda     | RFLT2W1G18G         | 11-JSPF412-020         | 12/11/2024                | 12/10/2025               |
| Splitter                                  | RF-Lambda     | RFLT4W1G18G         | SPCD10-010             | 12/11/2024                | 12/10/2025               |
| Splitter                                  | Titan         | T0510E4W118Q        | 22015177               | 12/11/2024                | 12/10/2025               |
| Test Software                             | SGS           | Radio Test Software | Ver. 21                | N.C.R                     | N.C.R                    |

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## 6.4 Radiated Measurement

| Radiated Emission Test Site: SAC 3 |                   |  |  |                        |                       |
|------------------------------------|-------------------|--|--|------------------------|-----------------------|
| EQUIPMENT TYPE                     | MFR               | MODEL NUMBER   | SERIAL NUMBER  | LAST CAL. (mm/dd/yyyy) | CAL DUE. (mm/dd/yyyy) |
| 8.5G High Pass Filter              | Titan             | T04H85002500060 S01  | 23040703-40  | 12/11/2024             | 12/10/2025            |
| Attenuator                         | Mini-Circuits     | BW-S10W2+  | 16   | 12/11/2024             | 12/10/2025            |
| Band Reject Filter 5925-6425       | Woken             | WFIL-N5925-6425F   | WRGBAFWC2F9  | 12/11/2024             | 12/10/2025            |
| Band Reject Filter 6425-6525       | Woken             | WFIL-N6425-6525F   | WRGBAFWC2J1  | 12/11/2024             | 12/10/2025            |
| Band Reject Filter 6525-6875       | Woken             | WFIL-N6525-6875F   | WRGBAFWC2J4  | 12/11/2024             | 12/10/2025            |
| Band Reject Filter 6875-7125       | Woken             | WFIL-N6875-7125F   | WRGBAFWC2J9  | 12/11/2024             | 12/10/2025            |
| Bi-log Antenna                     | SCHWARZBECK       | VULB9168   | 378  | 08/09/2024             | 08/08/2025            |
| Coaxial Cables                     | EMCI+Huber Suhner | EMC107-SM-SM-1000<br>+SUCOFLEX 104PEA<br>+EMC107-SM-SM-1500<br>+SUCOFLEX 106 | RX Cable 9K-18G (221110+MY4251/4PEA+221106+760 96/6) | 08/30/2024             | 08/29/2025            |
| Coaxial Cables                     | Huber Suhner      | SUCOFLEX 102   | RX Cable 18G-40G MY2630/2+805062 /2                  | 08/30/2024             | 08/29/2025            |
| EMI Test Receiver                  | R&S               | ESCI 7   | 100759   | 08/28/2024             | 08/27/2025            |
| EXA Spectrum Analyzer              | KEYSIGHT          | N9010B   | MY63440386   | 02/05/2025             | 02/04/2026            |
| Horn Antenna                       | RF SPIN           | DRH0844  | LE2D05A0844  | 07/10/2024             | 07/09/2025            |
| Horn Antenna                       | SCHWARZBECK       | BBHA9120D  | 1441   | 09/23/2024             | 09/22/2025            |
| Loop Antenna                       | COM-POWER         | AL-130R  | 10160104   | 12/19/2024             | 12/18/2025            |
| Pre-Amplifier                      | EMCI              | EMC118A45SEE   | 980868   | 08/30/2024             | 08/29/2025            |
| Pre-Amplifier                      | EMCI              | EMC184045SEE   | 9080939  | 08/30/2024             | 08/29/2025            |
| Pre-Amplifier                      | HP                | 8447D  | 2944A07676   | 08/30/2024             | 08/29/2025            |
| Site Cal                           | SGS               | SAC 3  | N/A  | 08/30/2024             | 08/29/2025            |
| Test Software                      | Audix             | e3   | Ver. 9.210616  | N.C.R                  | N.C.R                 |

**NOTE:** N.C.R refers to Not Calibrated Required.

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## 7 CONDUCTED EMISSION TEST

### 7.1 Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

| Frequency range<br>MHz | Limits<br>(dBuV) |          |
|------------------------|------------------|----------|
|                        | Quasi-peak       | Average  |
| 0.15 to 0.50           | 66 to 56         | 56 to 46 |
| 0.50 to 5              | 56               | 46       |
| 5 to 30                | 60               | 50       |

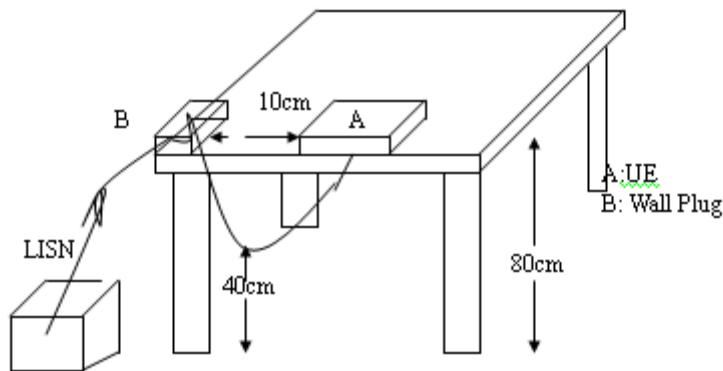
**Note**

1. The lower limit shall apply at the transition frequencies
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

### 7.3 Test Setup



### 7.4 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

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## 7.5 Measurement Result

Level = Read Level + Factor

Factor = (LISN, ISN, or current probe)Factor + Cable Loss +Attenuator

Note: Refer to next page for measurement data and plots.

Note2: The \* reveals the worst-case results that closest to the limit.

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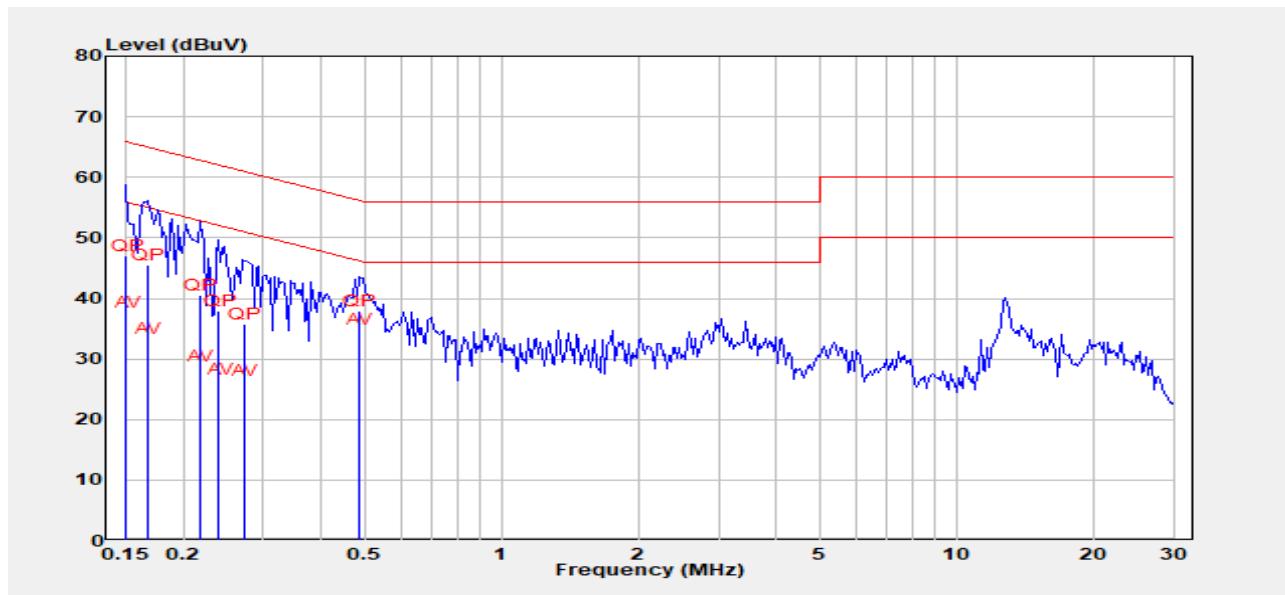
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2505001682ER Test Site :Conduction 1  
 Operation Mode :WLAN6G Test Date :2025-06-13  
 Power :120V/60Hz Temp./Humi. :24.5°C/66%  
 Probe :L Engineer :Nick Lin  
 Note: :



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V | Limit<br>dB $\mu$ V | Margin<br>dB |
|--------------|------------------------------|---|--------------|----------------------------|---------------------|--------------|
| 0.150        | Average                      | 27.51                                   | 10.13        | 37.64                      | 56.00               | -18.36       |
| 0.150        | QP                           | 36.97                                   | 10.13        | 47.10                      | 66.00               | -18.90       |
| 0.167        | Average                      | 23.32                                   | 10.13        | 33.45                      | 55.12               | -21.67       |
| 0.167        | QP                           | 35.47                                   | 10.13        | 45.60                      | 65.12               | -19.52       |
| 0.217        | Average                      | 18.67                                   | 10.13        | 28.80                      | 52.92               | -24.12       |
| 0.217        | QP                           | 30.43                                   | 10.13        | 40.56                      | 62.92               | -22.36       |
| 0.239        | Average                      | 16.52                                   | 10.14        | 26.66                      | 52.13               | -25.47       |
| 0.239        | QP                           | 27.91                                   | 10.14        | 38.05                      | 62.13               | -24.08       |
| 0.272        | Average                      | 16.34                                   | 10.14        | 26.48                      | 51.07               | -24.59       |
| 0.272        | QP                           | 25.55                                   | 10.14        | 35.69                      | 61.07               | -25.38       |
| 0.486        | Average                      | 24.69                                   | 10.16        | 34.85                      | 46.23               | -11.38       |
| 0.486        | QP                           | 27.72                                   | 10.16        | 37.88                      | 56.23               | -18.35       |

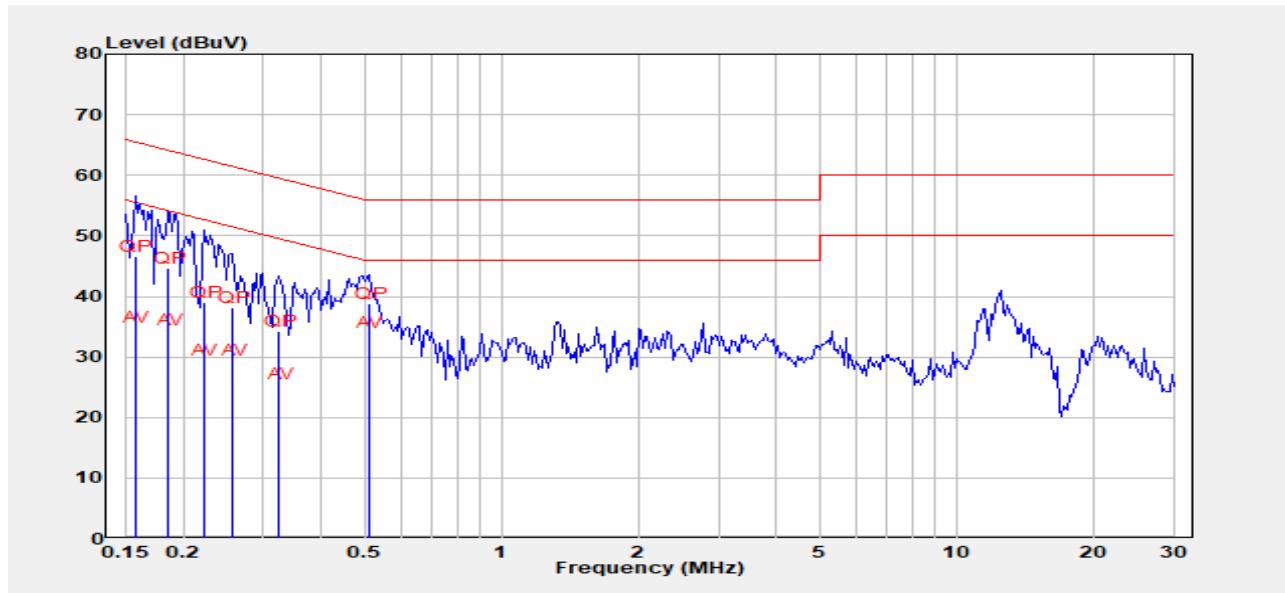
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Report Number :TERF2505001682ER Test Site :Conduction 1  
Operation Mode :WLAN6G Test Date :2025-06-13  
Power :120V/60Hz Temp./Humi. :24.5°C/66%  
Probe :N Engineer :Nick Lin  
Note: :



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V | Limit<br>dB $\mu$ V | Margin<br>dB |
|--------------|------------------------------|---|--------------|----------------------------|---------------------|--------------|
| 0.156        | Average                      | 24.83                                   | 10.12        | 34.95                      | 55.65               | -20.70       |
| 0.156        | QP                           | 36.54                                   | 10.12        | 46.66                      | 65.65               | -18.99       |
| 0.185        | Average                      | 24.43                                   | 10.12        | 34.55                      | 54.24               | -19.69       |
| 0.185        | QP                           | 34.47                                   | 10.12        | 44.59                      | 64.24               | -19.65       |
| 0.222        | Average                      | 19.33                                   | 10.12        | 29.45                      | 52.74               | -23.29       |
| 0.222        | QP                           | 28.97                                   | 10.12        | 39.09                      | 62.74               | -23.65       |
| 0.258        | Average                      | 19.32                                   | 10.13        | 29.45                      | 51.51               | -22.06       |
| 0.258        | QP                           | 28.01                                   | 10.13        | 38.14                      | 61.51               | -23.37       |
| 0.325        | Average                      | 15.43                                   | 10.14        | 25.57                      | 49.57               | -24.00       |
| 0.325        | QP                           | 24.11                                   | 10.14        | 34.25                      | 59.57               | -25.32       |
| 0.513        | Average                      | 23.78                                   | 10.16        | 33.94                      | 46.00               | -12.06       |
| 0.513        | QP                           | 28.73                                   | 10.16        | 38.89                      | 56.00               | -17.11       |

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## 8 EMISSION BANDWIDTH

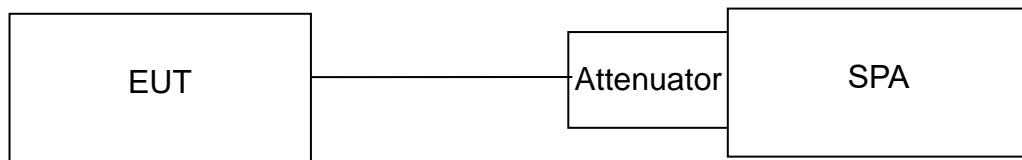
### 8.1 Standard Applicable

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

### 8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
  - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as approximately 1% of emission BW Sweep=auto,  
Detector = Peak,  
Trace Mode = Max Hold,  
Manually readjust RBW until the RBW/EBW ratio is approximately 1% based on EBW as observed on the result of pre-sequence measurement.
  - 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. For 99% Bandwidth: Set the spectrum analyzer as  
RBW=1% to 5% of the OBW,  
VBW = 3\*RBW,  
Span = large enough to capture all products of the modulation process,  
Detector=Sample,  
Sweep=auto.
6. Turn on the 99% bandwidth function, max reading.
7. Repeat above procedures until all frequency of interest measured was complete.

### 8.3 Test Setup



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## 8.4 Measurement Result

### 8.4.1 Bandwidth

#### 802.11ax\_HE20\_Ch0

| CH  | Frequency (MHz) | 99% BW (MHz) | 26dB BW (MHz) | ITU-Code |
|-----|-----------------|--------------|---------------|----------|
| 1   | 5955            | 18.822       | 20.26         |          |
| 45  | 6175            | 18.824       | 20.22         |          |
| 93  | 6415            | 18.831       | 20.39         |          |
| 97  | 6435            | 18.850       | 20.32         |          |
| 105 | 6475            | 18.823       | 20.12         |          |
| 113 | 6515            | 18.860       | 20.10         |          |
| 117 | 6535            | 18.837       | 20.24         |          |
| 149 | 6695            | 18.858       | 20.34         |          |
| 181 | 6855            | 18.844       | 20.47         |          |
| 185 | 6875(U-NII 7)   | 9.437        | 10.09         |          |
| 185 | 6875(U-NII 8)   | 9.437        | 10.09         |          |
| 189 | 6895            | 18.842       | 20.35         |          |
| 209 | 6995            | 18.872       | 20.46         |          |
| 233 | 7115            | 18.879       | 20.36         |          |

#### 802.11ax\_HE20\_Ch1

| CH  | Frequency (MHz) | 99% BW (MHz) | 26dB BW (MHz) | ITU-Code |
|-----|-----------------|--------------|---------------|----------|
| 1   | 5955            | 18.877       | 20.57         |          |
| 45  | 6175            | 18.873       | 20.41         |          |
| 93  | 6415            | 18.840       | 20.40         |          |
| 97  | 6435            | 18.887       | 20.30         |          |
| 105 | 6475            | 18.823       | 20.63         |          |
| 113 | 6515            | 18.882       | 20.42         |          |
| 117 | 6535            | 18.848       | 20.37         |          |
| 149 | 6695            | 18.827       | 20.14         |          |
| 181 | 6855            | 18.806       | 20.60         |          |
| 185 | 6875(U-NII 7)   | 9.444        | 10.25         |          |
| 185 | 6875(U-NII 8)   | 9.444        | 10.25         |          |
| 189 | 6895            | 18.830       | 20.21         |          |
| 209 | 6995            | 18.869       | 20.18         |          |
| 233 | 7115            | 18.831       | 20.18         |          |

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802.11ax\_HE40\_Ch0

| CH  | Frequency (MHz) | 99% BW (MHz) | 26dB BW (MHz) | ITU-Code |
|-----|-----------------|--------------|---------------|----------|
| 3   | 5965            | 37.519       | 39.74         |          |
| 43  | 6165            | 37.510       | 39.47         |          |
| 91  | 6405            | 37.623       | 39.79         |          |
| 99  | 6445            | 37.494       | 39.33         |          |
| 107 | 6485            | 37.515       | 39.84         |          |
| 115 | 6525(U-NII 6)   | 18.774       | 19.97         |          |
| 115 | 6525(U-NII 7)   | 18.774       | 19.97         |          |
| 123 | 6565            | 37.559       | 39.95         |          |
| 147 | 6685            | 37.541       | 39.76         |          |
| 179 | 6845            | 37.706       | 39.59         |          |
| 187 | 6885(U-NII 7)   | 8.79         | 9.91          |          |
| 187 | 6885(U-NII 8)   | 28.790       | 29.91         |          |
| 195 | 6925            | 37.654       | 39.92         |          |
| 211 | 7005            | 37.565       | 39.54         |          |
| 227 | 7085            | 37.531       | 39.57         |          |

802.11ax\_HE40\_Ch1

| CH  | Frequency (MHz) | 99% BW (MHz) | 26dB BW (MHz) | ITU-Code |
|-----|-----------------|--------------|---------------|----------|
| 3   | 5965            | 37.535       | 39.60         |          |
| 43  | 6165            | 37.532       | 39.60         |          |
| 91  | 6405            | 37.579       | 39.44         |          |
| 99  | 6445            | 37.594       | 39.96         |          |
| 107 | 6485            | 37.516       | 39.79         |          |
| 115 | 6525(U-NII 6)   | 18.790       | 20.04         |          |
| 115 | 6525(U-NII 7)   | 18.790       | 20.04         |          |
| 123 | 6565            | 37.557       | 39.41         |          |
| 147 | 6685            | 37.567       | 39.53         |          |
| 179 | 6845            | 37.536       | 39.92         |          |
| 187 | 6885(U-NII 7)   | 8.794        | 9.86          |          |
| 187 | 6885(U-NII 8)   | 28.794       | 29.86         |          |
| 195 | 6925            | 37.550       | 39.53         |          |
| 211 | 7005            | 37.561       | 39.33         |          |
| 227 | 7085            | 37.629       | 39.48         |          |

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## 802.11ax\_HE80\_Ch0

| CH  | Frequency (MHz) | 99% BW (MHz) | 26dB BW (MHz) | ITU-Code |
|-----|-----------------|--------------|---------------|----------|
| 7   | 5985            | 76.787       | 80.15         |          |
| 39  | 6145            | 76.889       | 80.34         |          |
| 87  | 6385            | 76.537       | 80.28         |          |
| 103 | 6465            | 76.593       | 80.56         |          |
| 119 | 6545(U-NII 6)   | 18.442       | 20.56         |          |
| 119 | 6545(U-NII 7)   | 58.442       | 60.56         |          |
| 135 | 6625            | 76.736       | 80.43         |          |
| 151 | 6705            | 76.703       | 80.76         |          |
| 167 | 6785            | 76.772       | 80.48         |          |
| 183 | 6865(U-NII 7)   | 48.250       | 51.03         |          |
| 183 | 6865(U-NII 8)   | 28.250       | 31.03         |          |
| 199 | 6945            | 76.883       | 81.05         |          |
| 215 | 7025            | 76.711       | 80.52         |          |

## 802.11ax\_HE80\_Ch1

| CH  | Frequency (MHz) | 99% BW (MHz) | 26dB BW (MHz) | ITU-Code |
|-----|-----------------|--------------|---------------|----------|
| 7   | 5985            | 76.568       | 80.61         |          |
| 39  | 6145            | 76.904       | 81.16         |          |
| 87  | 6385            | 76.605       | 80.44         |          |
| 103 | 6465            | 76.712       | 80.86         |          |
| 119 | 6545(U-NII 6)   | 18.190       | 20.76         |          |
| 119 | 6545(U-NII 7)   | 58.190       | 60.76         |          |
| 135 | 6625            | 76.613       | 80.65         |          |
| 151 | 6705            | 76.810       | 80.96         |          |
| 167 | 6785            | 76.638       | 80.46         |          |
| 183 | 6865(U-NII 7)   | 48.411       | 50.35         |          |
| 183 | 6865(U-NII 8)   | 28.411       | 30.35         |          |
| 199 | 6945            | 76.418       | 80.46         |          |
| 215 | 7025            | 76.456       | 80.34         |          |

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802.11ax\_HE160\_Ch0

| CH  | Frequency (MHz) | 99% BW (MHz) | 26dB BW (MHz) | ITU-Code |
|-----|-----------------|--------------|---------------|----------|
| 15  | 6025            | 154.56       | 162.4         |          |
| 47  | 6185            | 154.28       | 163.4         |          |
| 79  | 6345            | 155.10       | 162.5         |          |
| 111 | 6505(U-NII 6)   | 97.07        | 101.5         |          |
| 111 | 6505(U-NII 7)   | 57.07        | 61.5          |          |
| 143 | 6665            | 154.73       | 162.0         |          |
| 175 | 6825(U-NII 7)   | 127.66       | 130.9         |          |
| 175 | 6825(U-NII 8)   | 27.66        | 30.9          |          |
| 207 | 6985            | 154.64       | 162.5         |          |

802.11ax\_HE160\_Ch1

| CH  | Frequency (MHz) | 99% BW (MHz) | 26dB BW (MHz) | ITU-Code |
|-----|-----------------|--------------|---------------|----------|
| 15  | 6025            | 154.22       | 162.3         |          |
| 47  | 6185            | 154.68       | 162.5         |          |
| 79  | 6345            | 154.89       | 162.5         |          |
| 111 | 6505(U-NII 6)   | 96.99        | 100.8         |          |
| 111 | 6505(U-NII 7)   | 56.99        | 60.8          |          |
| 143 | 6665            | 154.76       | 162.5         |          |
| 175 | 6825(U-NII 7)   | 127.43       | 132.1         |          |
| 175 | 6825(U-NII 8)   | 27.43        | 32.1          |          |
| 207 | 6985            | 154.58       | 161.6         |          |

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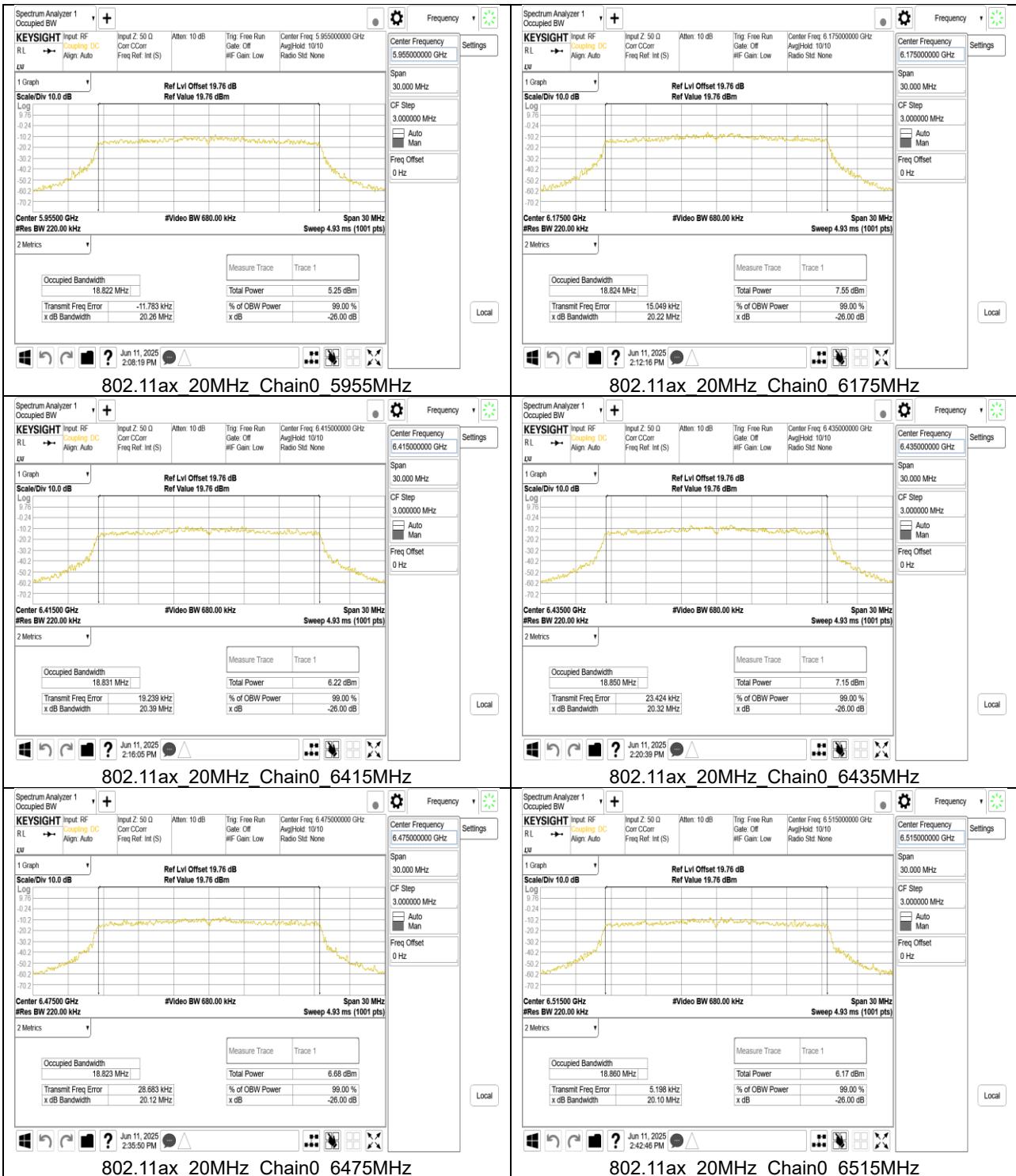
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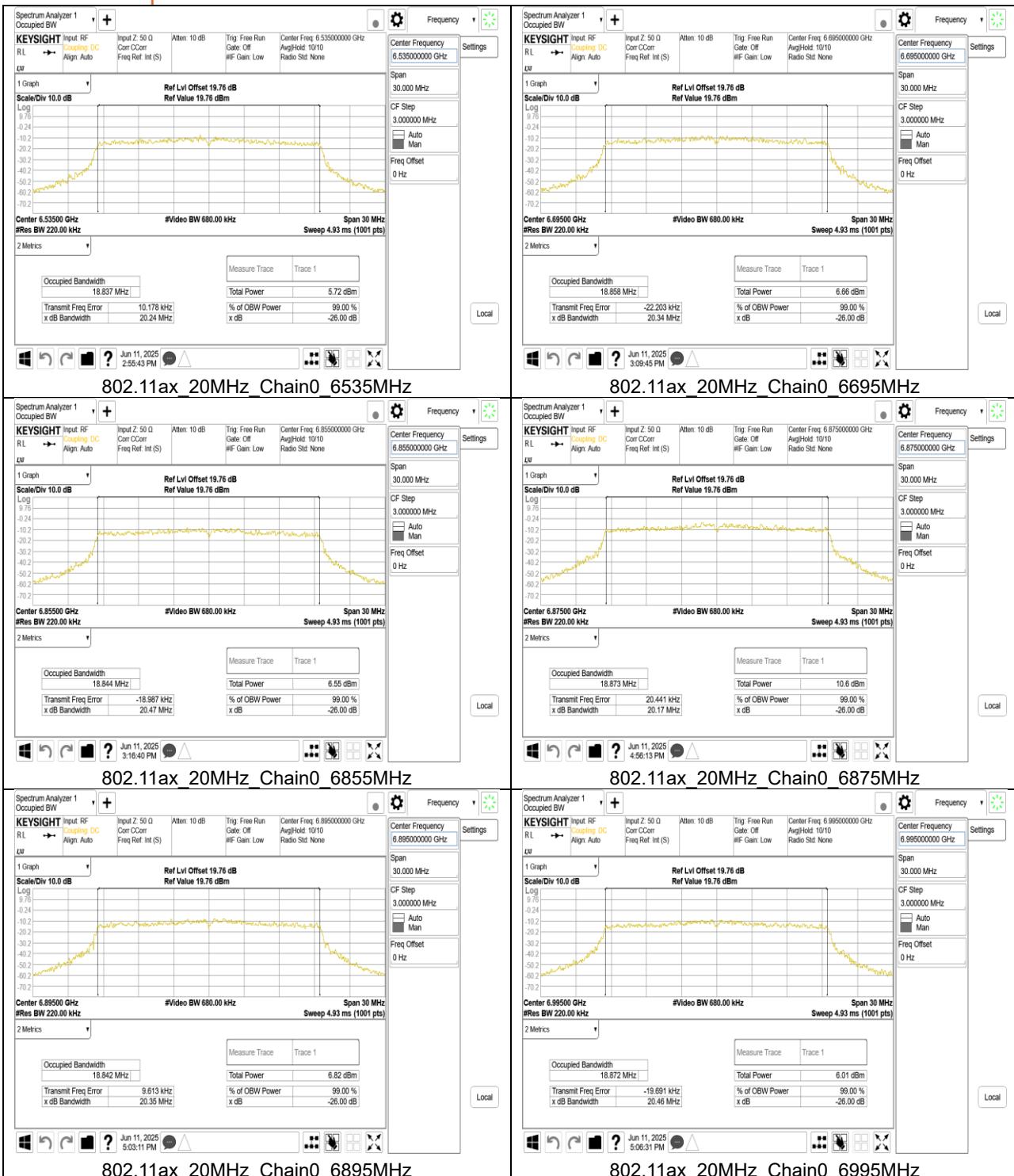
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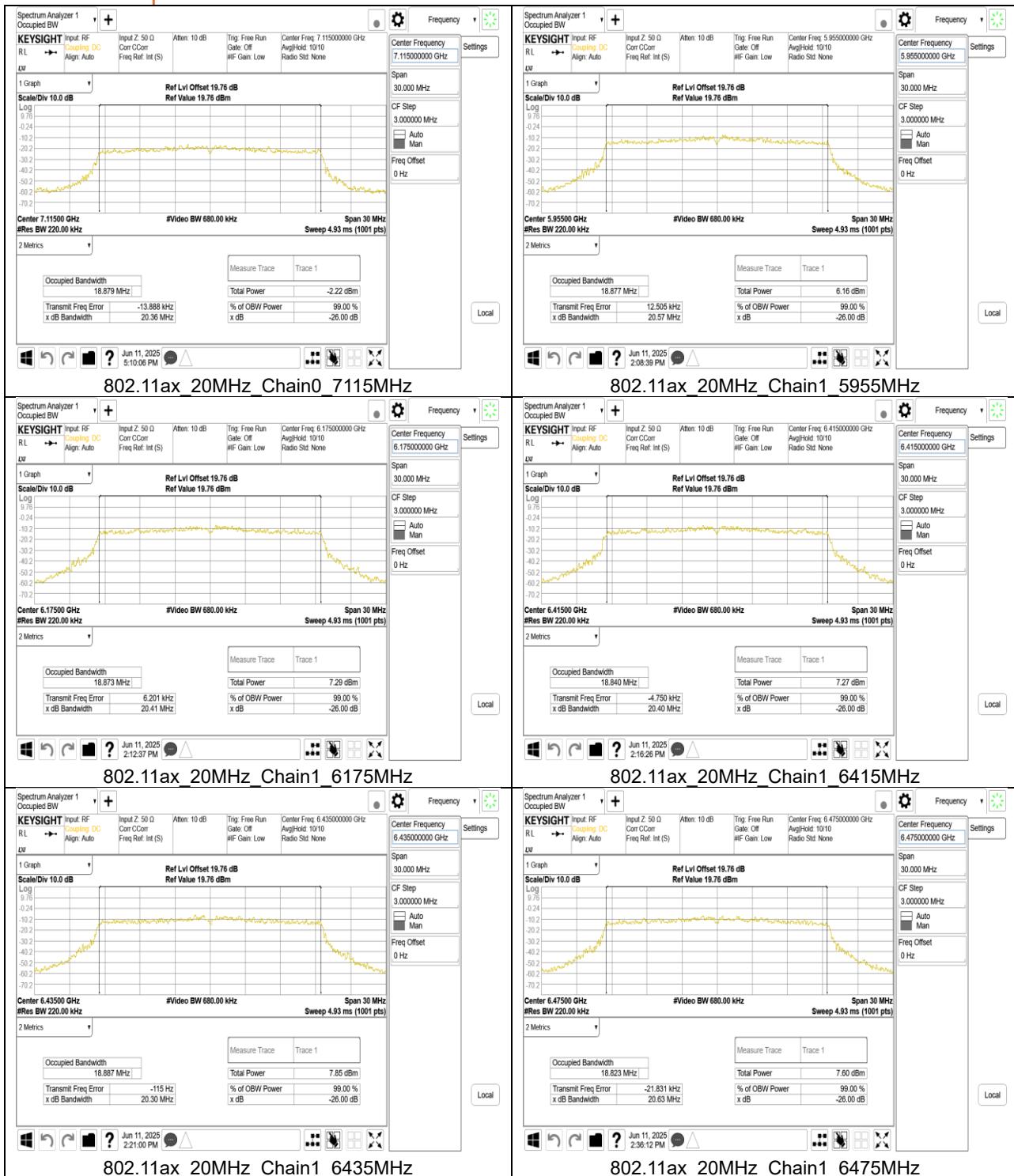
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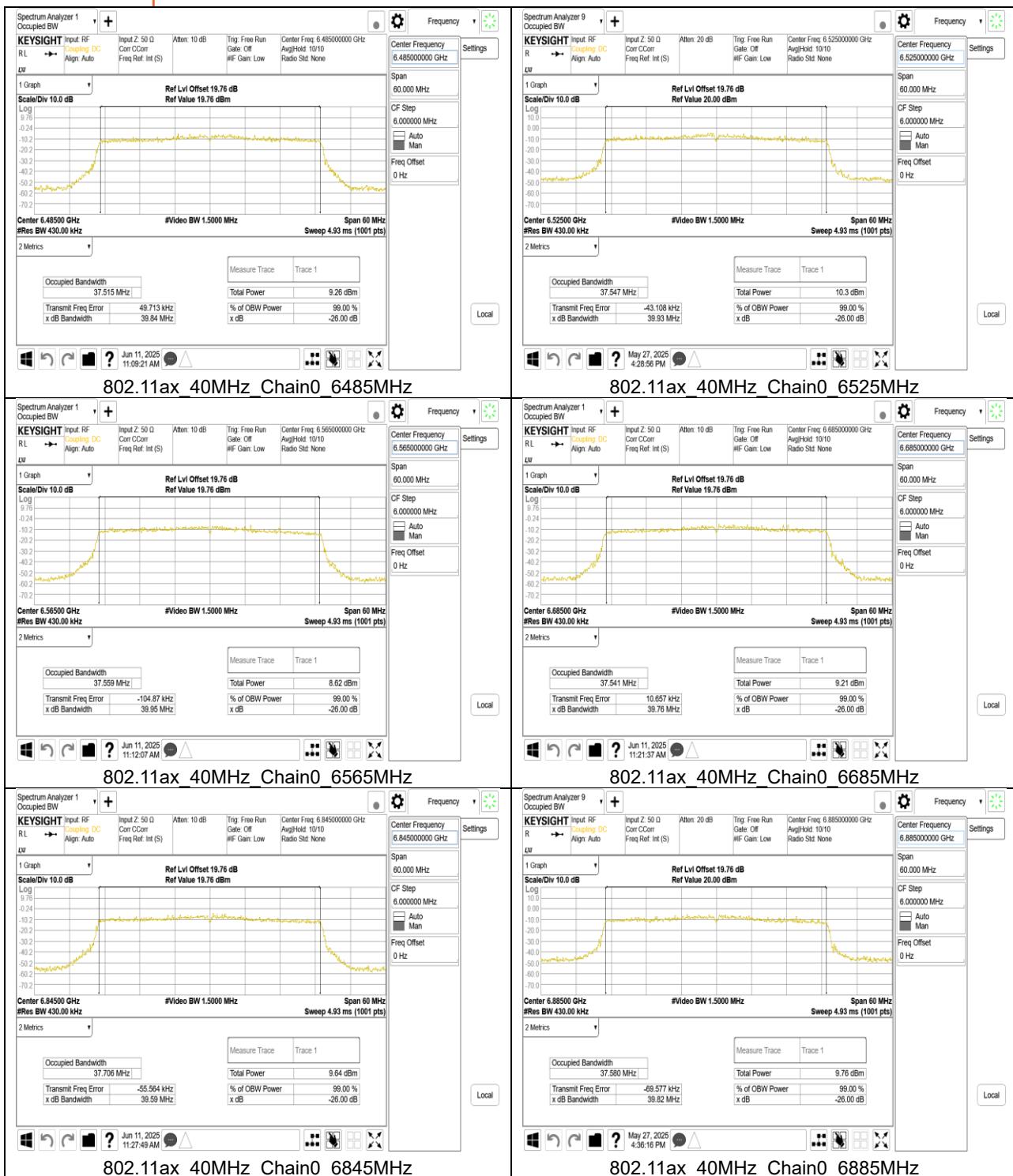
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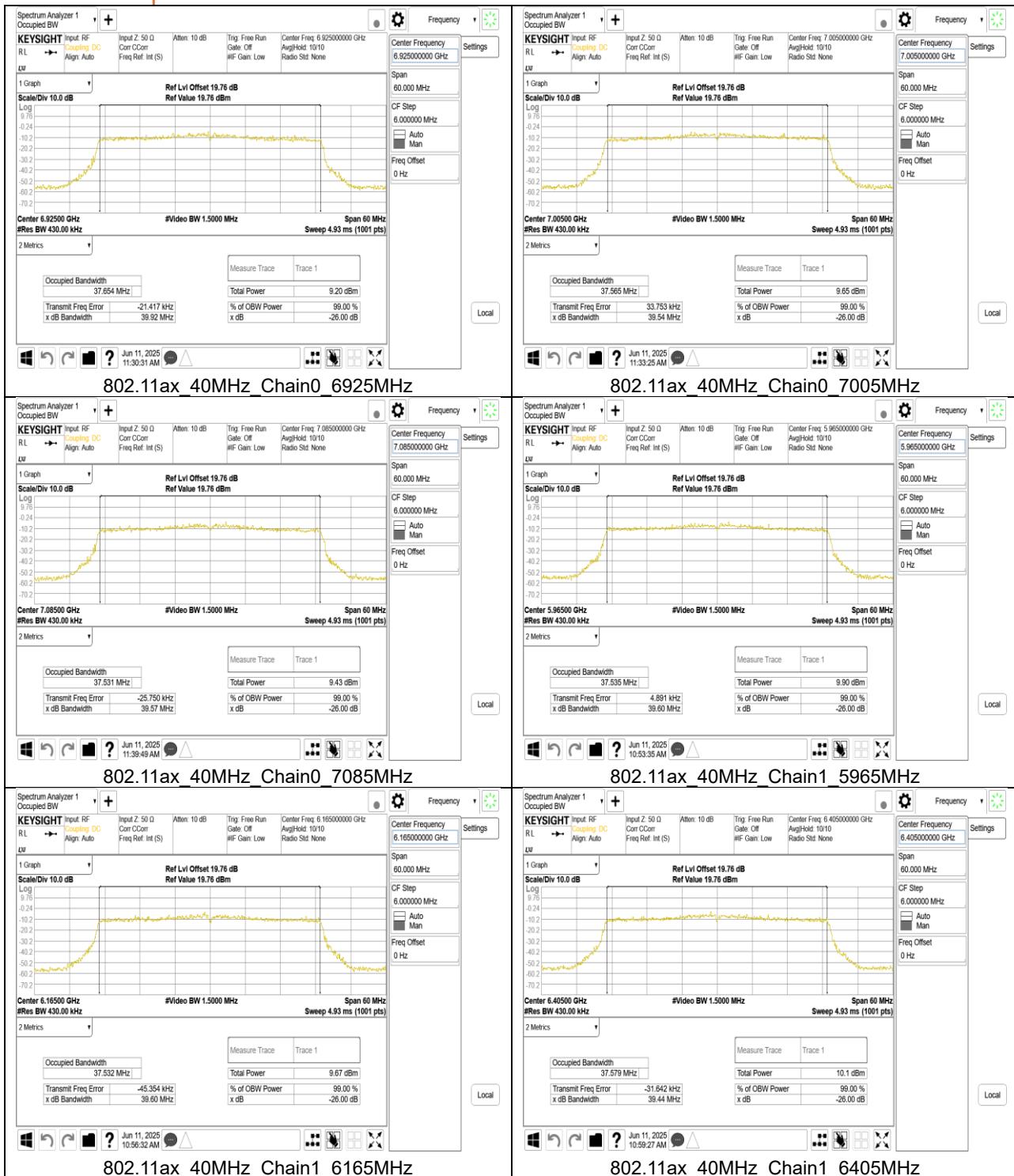
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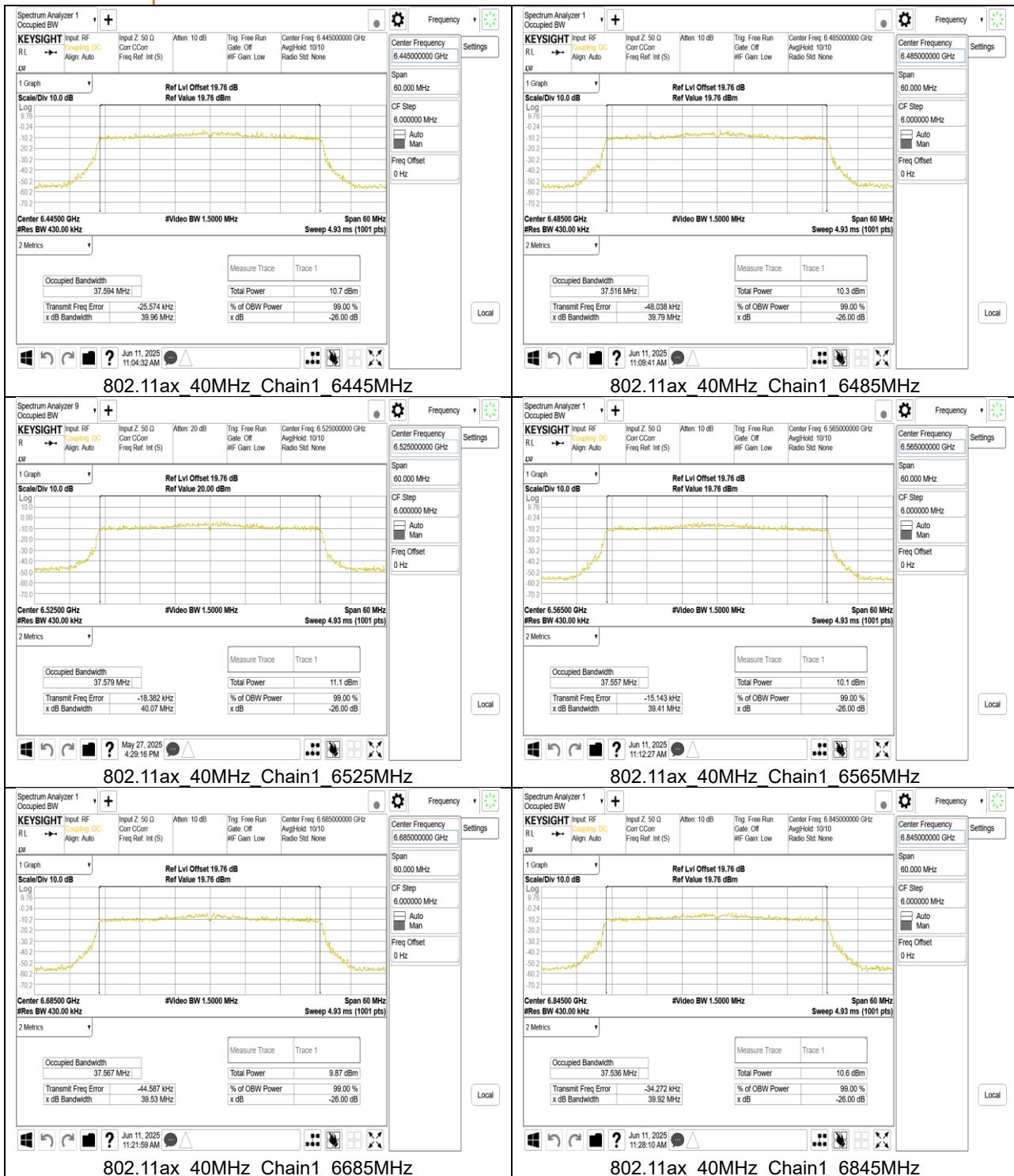
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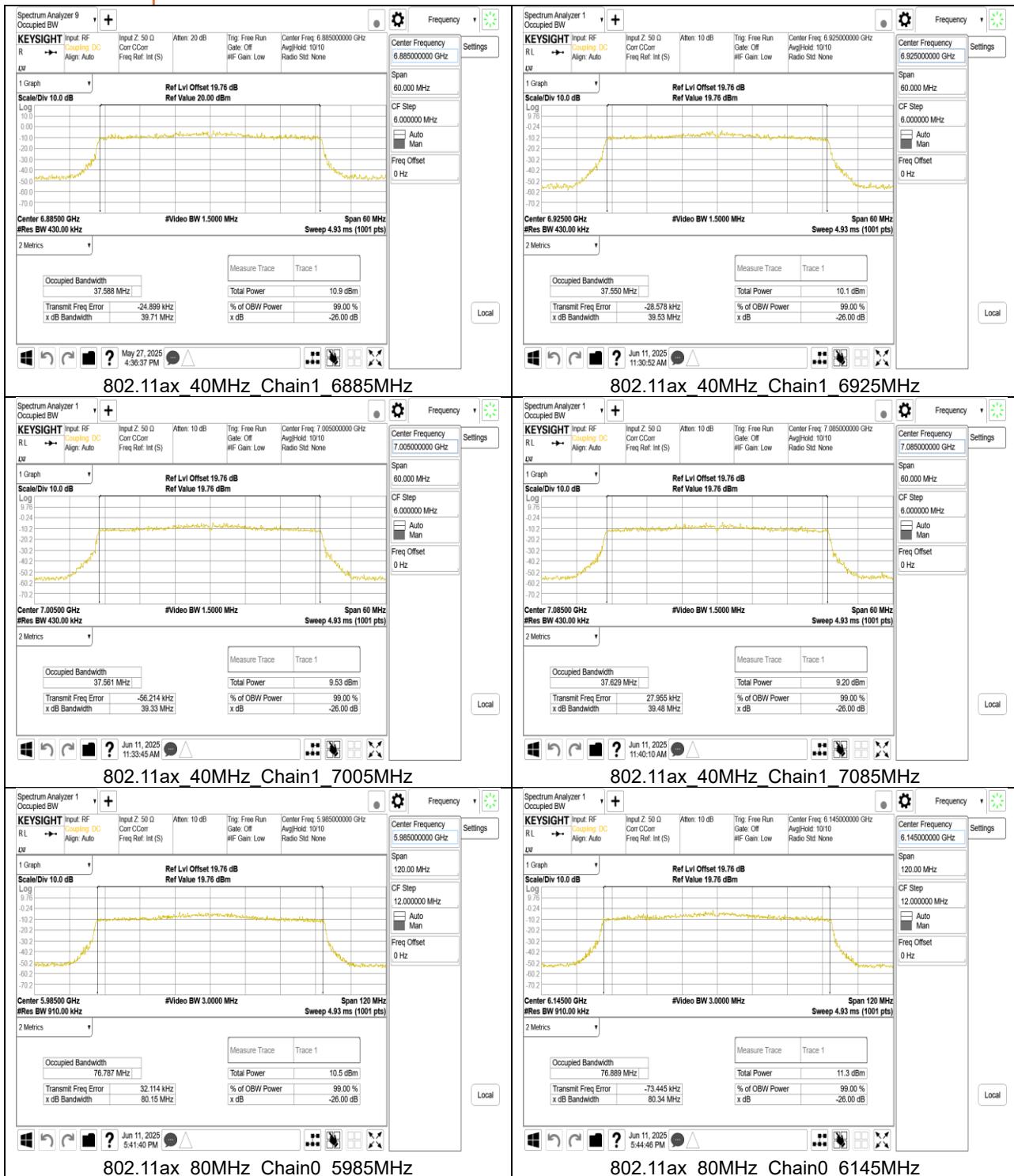
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台灣檢驗科技股份有限公司

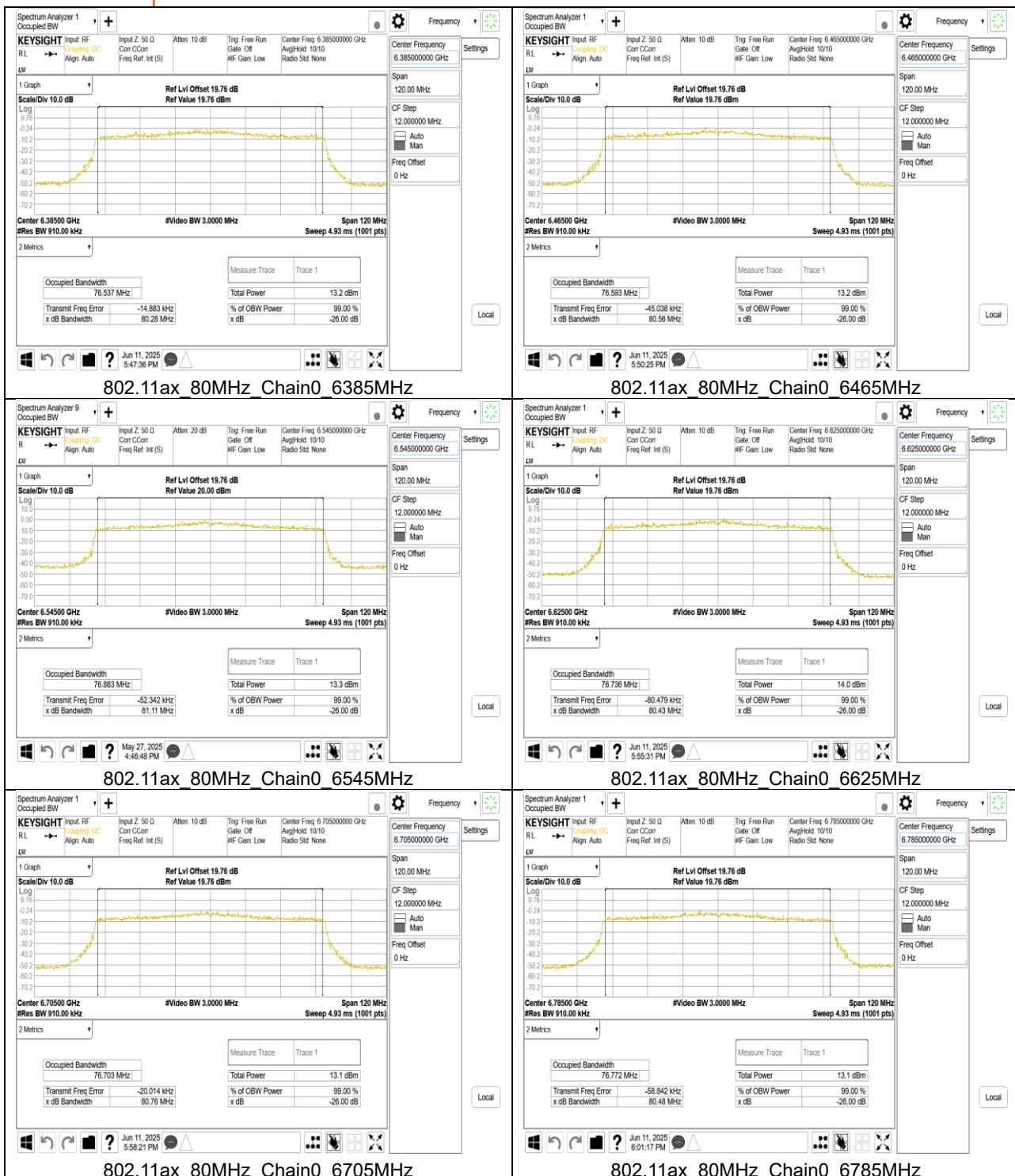
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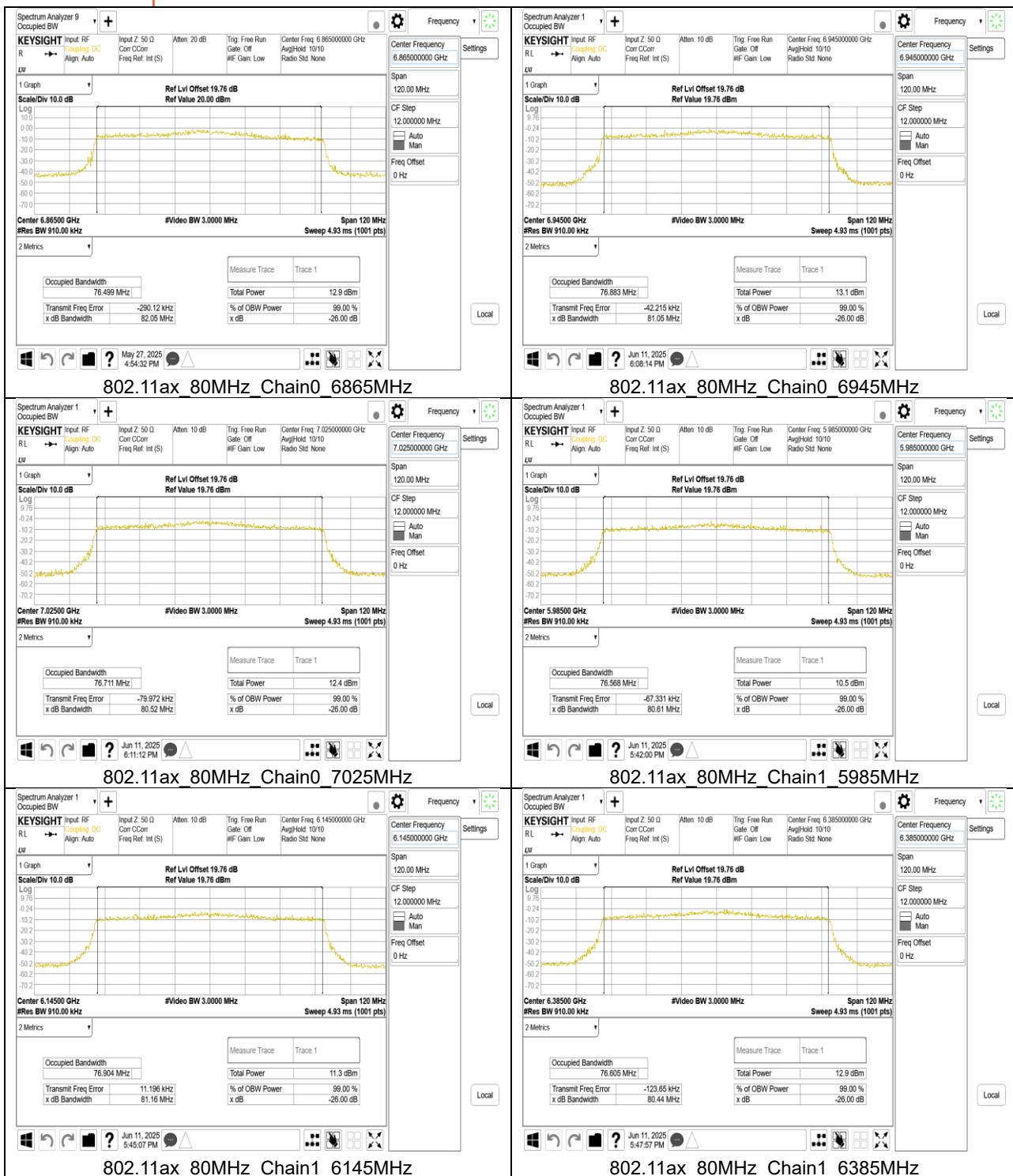
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