

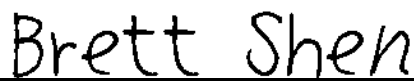
# FCC Radio Test Report

**FCC ID: EROTS80**

**Report No.** : BTL-FCCP-5-2502T154  
**Equipment** : (1) 8 inch Touch Screen Table top  
                   (2) 10.1 inch Touch Screen Table top  
**Model Name** : (1) M202404005  
                   (2) M202404006  
**Brand Name** : CRESTRON  
**Applicant** : Crestron Electronics, Inc.  
**Address** : 15 Volvo Drive, Rockleigh, NJ 07647  
  
**Equipment Class** : 6XD - 15E 6 GHz Low Power Indoor Client  
  
**Radio Function** : U-NII 6 GHz (U-NII 5, U-NII 6, U-NII 7, U-NII 8)  
  
**FCC Rule Part(s)** : FCC CFR Title 47, Part 15, Subpart E (15.407)  
**Measurement** : ANSI C63.10-2013  
**Procedure(s)**  
  
**Date of Receipt** : 2025/2/27  
**Date of Test** : 2025/3/6 ~ 2025/4/1  
**Issued Date** : 2025/6/11

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

**Prepared by**

  
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**Approved by**

  
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**Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL's** reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** assumes no responsibility for the data provided by the Customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**.

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**BTL's** laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

**BTL** is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

**Limitation**

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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### REVISION HISTORY

| Report No.          | Version | Description      | Issued Date | Note    |
|---------------------|---------|------------------|-------------|---------|
| BTL-FCCP-5-2502T154 | R00     | Original Report. | 2025/5/27   | Invalid |
| BTL-FCCP-5-2502T154 | R01     | Revised Typo.    | 2025/6/11   | Valid   |

## 1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

| Standard(s) Section                        | Description                                                | Test Result                            | Judgement | Remark   |
|--------------------------------------------|------------------------------------------------------------|----------------------------------------|-----------|----------|
| 15.407(a)                                  | Maximum e.i.r.p.                                           | APPENDIX A                             | Pass      | -----    |
| 15.203<br>15.407(a)                        | Antenna requirement                                        | -----                                  | Pass      | -----    |
| 15.407(a)                                  | Maximum transmitter channel bandwidth                      | APPENDIX B                             | Pass      | -----    |
| 15.407(a)                                  | Maximum power spectral density                             | APPENDIX C                             | Pass      | -----    |
| 15.407(b)<br>15.209<br>15.407(b)<br>15.205 | Undesirable emissions and<br>Restricted bands of operation | APPENDIX D<br>APPENDIX E<br>APPENDIX F | Pass      | -----    |
| 15.407(b)                                  | In-band emission (Mask)                                    | APPENDIX G                             | Pass      | -----    |
| 15.407(b)                                  | AC power line conducted emissions                          | -----                                  | N/A       | NOTE (4) |
| 15.407(d)                                  | Contention-based protocol                                  | APPENDIX H                             | Pass      | NOTE (2) |

### Statement of Conformity

The statement of conformity is based on the binary decision rule according to IEC Guide 115 and ILAC G8 "simple acceptance" principle. Without considering measurement uncertainty, its specific risk is less than 50% PFA. (PFA: Probability of False Accept)

#### NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) Contention-Based Protocol Uses conducted method for testing.
- (3) The report format version is TP.1.1.1.
- (4) This is a DC input device.

## 1.1 TEST FACILITY

The test locations stated below are under the TAF Accreditation Number 0659.

The test location(s) used to collect the test data in this report are:

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan  
(FCC DN: TW0659)

☐ C05 ☐ CB08 ☐ CB11 ☒ SR10 ☒ SR11

No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan  
(FCC DN: TW0659)

☐ C06 ☒ CB21 ☐ CB22

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k = 2$ , providing a level of confidence of approximately **95 %**.

### A. Conducted test:

| Test Item                             | U (dB) |
|---------------------------------------|--------|
| Maximum e.i.r.p.                      | 0.3669 |
| Maximum transmitter channel bandwidth | 0.5332 |
| Maximum power spectral density        | 0.6590 |
| In-band emission (Mask)               | -      |
| Contention-based protocol             | -      |

### B. Undesirable emissions test:

| Test Site | Measurement Frequency Range | U (dB) |
|-----------|-----------------------------|--------|
| CB21      | 0.03 GHz ~ 0.2 GHz          | 4.17   |
|           | 0.2 GHz ~ 1 GHz             | 4.72   |
|           | 1 GHz ~ 6 GHz               | 5.21   |
|           | 6 GHz ~ 18 GHz              | 5.51   |
|           | 18 GHz ~ 26 GHz             | 3.69   |
|           | 26 GHz ~ 40 GHz             | 4.23   |

### NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

## 1.3 TEST ENVIRONMENT CONDITIONS

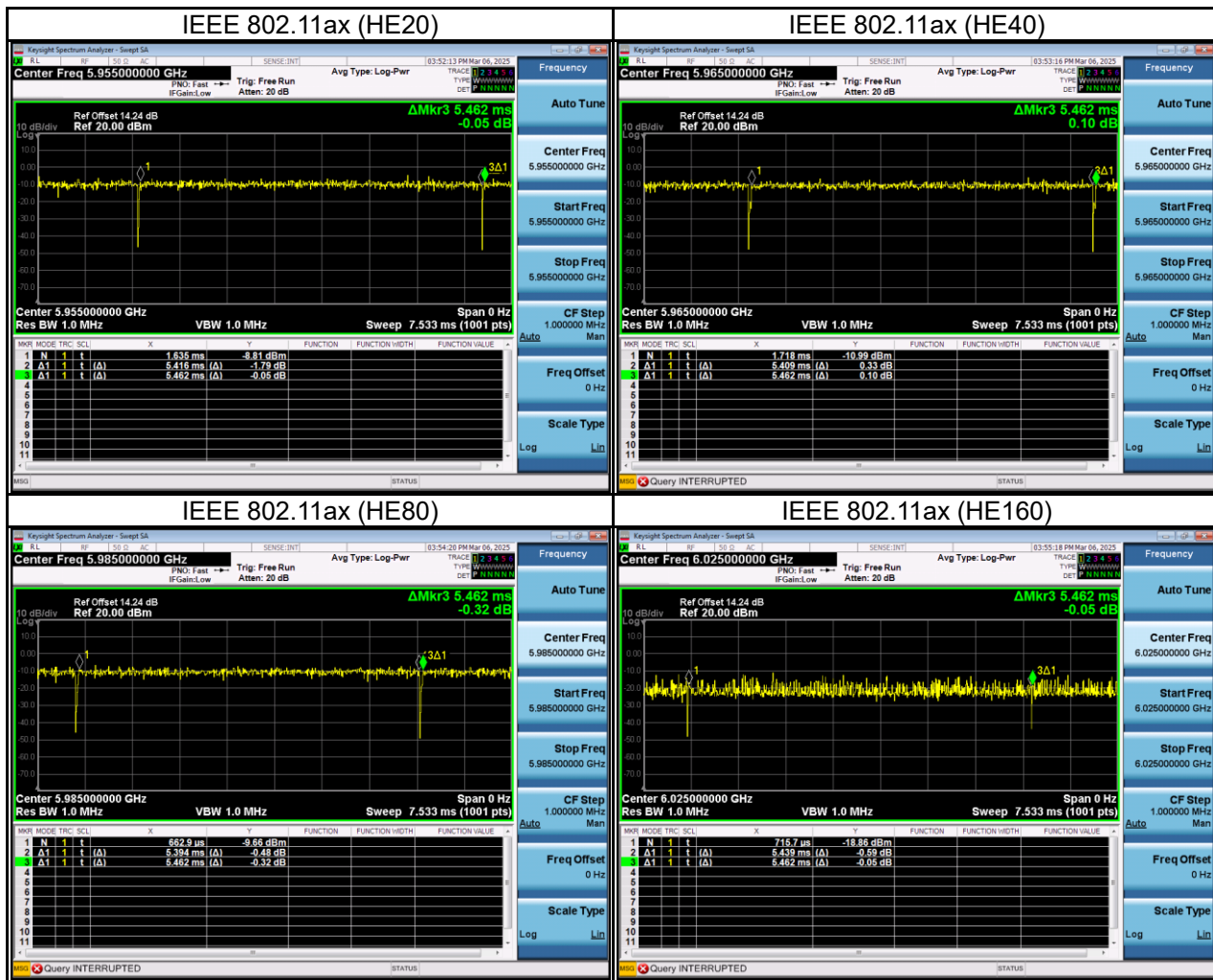
| Test Item                             | Environment Condition | Test Voltage | Tested by    |
|---------------------------------------|-----------------------|--------------|--------------|
| Maximum e.i.r.p.                      | 22.4 °C, 64 %         | DC 48V       | Ken Lan      |
| Maximum transmitter channel bandwidth | 22.4 °C, 64 %         | DC 48V       | Ken Lan      |
| Maximum power spectral density        | 22.4 °C, 64 %         | DC 48V       | Ken Lan      |
| Undesirable emissions below 1 GHz     | Refer to data         | DC 48V       | Mark Wang    |
| Undesirable emissions above 1 GHz     | Refer to data         | DC 48V       | Mark Wang    |
| In-band emission (Mask)               | 22.4 °C, 64 %         | DC 48V       | Ken Lan      |
| Contention-based protocol             | 21.3 °C, 64 %         | DC 48V       | Stanley Yang |

## 1.4 DUTY CYCLE

If duty cycle is  $\geq 98\%$ , duty factor is not required.

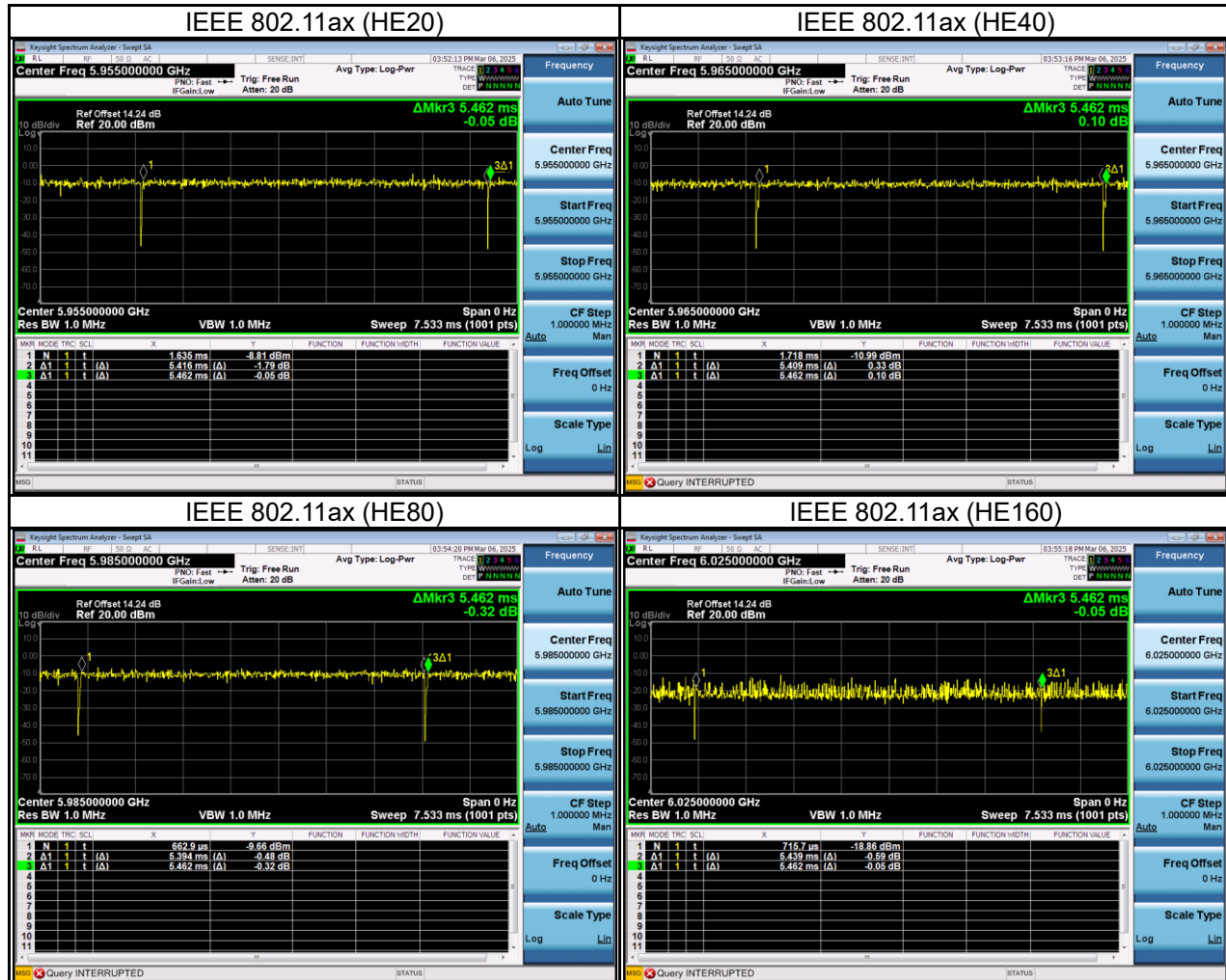
If duty cycle is  $< 98\%$ , duty factor shall be considered.

| Remark                | Delta 1 |              |                  | Delta 2              | On Time/Period | 10 log(1/Duty Cycle) | 1/On Time (B)         |
|-----------------------|---------|--------------|------------------|----------------------|----------------|----------------------|-----------------------|
| Mode                  | ON (ms) | Numbers (ON) | On Time (B) (ms) | Period (ON+OFF) (ms) | Duty Cycle (%) | Duty Factor (dB)     | 1/B Minimum VBW (kHz) |
| IEEE 802.11ax (HE20)  | 5.416   | 1            | 5.416            | 5.462                | 99.16%         | 0.04                 | 0.010                 |
| IEEE 802.11ax (HE40)  | 5.409   | 1            | 5.409            | 5.462                | 99.03%         | 0.04                 | 0.010                 |
| IEEE 802.11ax (HE80)  | 5.394   | 1            | 5.394            | 5.462                | 98.76%         | 0.05                 | 0.010                 |
| IEEE 802.11ax (HE160) | 5.439   | 1            | 5.439            | 5.462                | 99.58%         | 0.02                 | 0.010                 |



## For RU Configuration:

| Remark                | Delta 1 |              |                  | Delta 2              | On Time/Period | 10 log(1/Duty Cycle) | 1/On Time (B)         |
|-----------------------|---------|--------------|------------------|----------------------|----------------|----------------------|-----------------------|
| Mode                  | ON (ms) | Numbers (ON) | On Time (B) (ms) | Period (ON+OFF) (ms) | Duty Cycle (%) | Duty Factor (dB)     | 1/B Minimum VBW (kHz) |
| IEEE 802.11ax (HE20)  | 5.416   | 1            | 5.416            | 5.462                | 99.16%         | 0.04                 | 0.010                 |
| IEEE 802.11ax (HE40)  | 5.409   | 1            | 5.409            | 5.462                | 99.03%         | 0.04                 | 0.010                 |
| IEEE 802.11ax (HE80)  | 5.394   | 1            | 5.394            | 5.462                | 98.76%         | 0.05                 | 0.010                 |
| IEEE 802.11ax (HE160) | 5.439   | 1            | 5.439            | 5.462                | 99.58%         | 0.02                 | 0.010                 |



## 2 GENERAL INFORMATION

### 2.1 EUT INFORMATION

|                                |                                                                                                                                                                                       |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment                      | (1) 8 inch Touch Screen Table top<br>(2) 10.1 inch Touch Screen Table top                                                                                                             |
| Model Name                     | (1) M202404005<br>(2) M202404006                                                                                                                                                      |
| Brand Name                     | CRESTRON                                                                                                                                                                              |
| Model Difference               | M202404005: Screen size 8 Inch Table top.<br>M202404006: Screen size 10.1 Inch Table top                                                                                              |
| Power Source                   | DC voltage supplied from PoE.                                                                                                                                                         |
| Power Rating                   | Input 48 VDC 350mA (802.3at type 1)<br>Input 48 VDC 600mA (802.3at type 2)                                                                                                            |
| Products Covered               | N/A                                                                                                                                                                                   |
| Frequency Range                | U-NII 5: 5925 MHz ~ 6425 MHz<br>U-NII 6: 6425 MHz ~ 6525 MHz<br>U-NII 7: 6525 MHz ~ 6875 MHz<br>U-NII 8: 6875 MHz ~ 7125 MHz                                                          |
| Operation Frequency            | UNII-5: 5955 MHz ~ 6435 MHz<br>UNII-6: 6435 MHz ~ 6515 MHz<br>UNII-7: 6525 MHz ~ 6875 MHz<br>UNII-8: 6895 MHz ~ 7115 MHz                                                              |
| Modulation Technology          | OFDMA                                                                                                                                                                                 |
| Transfer Rate                  | IEEE 802.11ax: up to 2402 Mbps                                                                                                                                                        |
| Maximum E.I.R.P.<br>for UNII-5 | IEEE 802.11ax (HE20): 10.60 dBm (0.0115 W)<br>IEEE 802.11ax (HE40): 13.54 dBm (0.0226 W)<br>IEEE 802.11ax (HE80): 16.65 dBm (0.0462 W)<br>IEEE 802.11ax (HE160): 19.22 dBm (0.0835 W) |
| Maximum E.I.R.P.<br>for UNII-6 | IEEE 802.11ax (HE20): 10.32 dBm (0.0108 W)<br>IEEE 802.11ax (HE40): 13.15 dBm (0.0207 W)<br>IEEE 802.11ax (HE80): 16.25 dBm (0.0422 W)<br>IEEE 802.11ax (HE160): 19.13 dBm (0.0818 W) |
| Maximum E.I.R.P.<br>for UNII-7 | IEEE 802.11ax (HE20): 9.74 dBm (0.0094 W)<br>IEEE 802.11ax (HE40): 13.37 dBm (0.0217 W)<br>IEEE 802.11ax (HE80): 16.62 dBm (0.0459 W)<br>IEEE 802.11ax (HE160): 19.18 dBm (0.0827 W)  |
| Maximum E.I.R.P.<br>for UNII-8 | IEEE 802.11ax (HE20): 9.62 dBm (0.0092 W)<br>IEEE 802.11ax (HE40): 13.88 dBm (0.0244 W)<br>IEEE 802.11ax (HE80): 16.84 dBm (0.0483 W)<br>IEEE 802.11ax (HE160): 19.41 dBm (0.0874 W)  |
| Test Software Version          | Qualcomm Radio Control Toolkit V 4.0.00203.0                                                                                                                                          |
| Test Model                     | M202404006                                                                                                                                                                            |
| Sample Status                  | Engineering Sample                                                                                                                                                                    |
| EUT Modification(s)            | N/A                                                                                                                                                                                   |

**NOTE:**

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

## (2) Channel List:

| UNII-5               |                 |                      |                 |                      |                 |                       |                 |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|-----------------------|-----------------|
| IEEE 802.11ax (HE20) |                 | IEEE 802.11ax (HE40) |                 | IEEE 802.11ax (HE80) |                 | IEEE 802.11ax (HE160) |                 |
| Channel              | Frequency (MHz) | Channel              | Frequency (MHz) | Channel              | Frequency (MHz) | Channel               | Frequency (MHz) |
| 1                    | 5955            | 3                    | 5965            | 7                    | 5985            | 15                    | 6025            |
| 5                    | 5975            | 11                   | 6005            | 23                   | 6065            | 47                    | 6185            |
| 9                    | 5995            | 19                   | 6045            | 39                   | 6145            | 79                    | 6345            |
| 13                   | 6015            | 27                   | 6085            | 55                   | 6225            |                       |                 |
| 17                   | 6035            | 35                   | 6125            | 71                   | 6305            |                       |                 |
| 21                   | 6055            | 43                   | 6165            | 87                   | 6385            |                       |                 |
| 25                   | 6075            | 51                   | 6205            |                      |                 |                       |                 |
| 29                   | 6095            | 59                   | 6245            |                      |                 |                       |                 |
| 33                   | 6115            | 67                   | 6285            |                      |                 |                       |                 |
| 37                   | 6135            | 75                   | 6325            |                      |                 |                       |                 |
| 41                   | 6155            | 83                   | 6365            |                      |                 |                       |                 |
| 45                   | 6175            | 91                   | 6405            |                      |                 |                       |                 |
| 49                   | 6195            |                      |                 |                      |                 |                       |                 |
| 53                   | 6215            |                      |                 |                      |                 |                       |                 |
| 57                   | 6235            |                      |                 |                      |                 |                       |                 |
| 61                   | 6255            |                      |                 |                      |                 |                       |                 |
| 65                   | 6275            |                      |                 |                      |                 |                       |                 |
| 69                   | 6295            |                      |                 |                      |                 |                       |                 |
| 73                   | 6315            |                      |                 |                      |                 |                       |                 |
| 77                   | 6335            |                      |                 |                      |                 |                       |                 |
| 81                   | 6355            |                      |                 |                      |                 |                       |                 |
| 85                   | 6375            |                      |                 |                      |                 |                       |                 |
| 89                   | 6395            |                      |                 |                      |                 |                       |                 |
| 93                   | 6415            |                      |                 |                      |                 |                       |                 |

| UNII-6               |                 |                      |                 |                      |                 |                       |                 |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|-----------------------|-----------------|
| IEEE 802.11ax (HE20) |                 | IEEE 802.11ax (HE40) |                 | IEEE 802.11ax (HE80) |                 | IEEE 802.11ax (HE160) |                 |
| Channel              | Frequency (MHz) | Channel              | Frequency (MHz) | Channel              | Frequency (MHz) | Channel               | Frequency (MHz) |
| 97                   | 6435            | 99                   | 6445            | 103                  | 6465            | 111                   | 6505            |
| 101                  | 6455            | 107                  | 6485            |                      |                 |                       |                 |
| 105                  | 6475            |                      |                 |                      |                 |                       |                 |
| 109                  | 6495            |                      |                 |                      |                 |                       |                 |
| 113                  | 6515            |                      |                 |                      |                 |                       |                 |

| UNII-7               |                 |                      |                 |                      |                 |                       |                 |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|-----------------------|-----------------|
| IEEE 802.11ax (HE20) |                 | IEEE 802.11ax (HE40) |                 | IEEE 802.11ax (HE80) |                 | IEEE 802.11ax (HE160) |                 |
| Channel              | Frequency (MHz) | Channel              | Frequency (MHz) | Channel              | Frequency (MHz) | Channel               | Frequency (MHz) |
| 117                  | 6535            | 115                  | 6525*           | 119                  | 6545*           | 143                   | 6665            |
| 121                  | 6555            | 123                  | 6565            | 135                  | 6625            | 175                   | 6825            |
| 125                  | 6575            | 131                  | 6605            | 151                  | 6705            |                       |                 |
| 129                  | 6595            | 139                  | 6645            | 167                  | 6785            |                       |                 |
| 133                  | 6615            | 147                  | 6685            | 183                  | 6865*           |                       |                 |
| 137                  | 6635            | 155                  | 6725            |                      |                 |                       |                 |
| 141                  | 6655            | 163                  | 6765            |                      |                 |                       |                 |
| 145                  | 6675            | 171                  | 6805            |                      |                 |                       |                 |
| 149                  | 6695            | 179                  | 6845            |                      |                 |                       |                 |
| 153                  | 6715            |                      |                 |                      |                 |                       |                 |
| 157                  | 6735            |                      |                 |                      |                 |                       |                 |
| 161                  | 6755            |                      |                 |                      |                 |                       |                 |
| 165                  | 6775            |                      |                 |                      |                 |                       |                 |
| 169                  | 6795            |                      |                 |                      |                 |                       |                 |
| 173                  | 6815            |                      |                 |                      |                 |                       |                 |
| 177                  | 6835            |                      |                 |                      |                 |                       |                 |
| 181                  | 6855            |                      |                 |                      |                 |                       |                 |

| UNII-8               |                 |                      |                 |                      |                 |                       |                 |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|-----------------------|-----------------|
| IEEE 802.11ax (HE20) |                 | IEEE 802.11ax (HE40) |                 | IEEE 802.11ax (HE80) |                 | IEEE 802.11ax (HE160) |                 |
| Channel              | Frequency (MHz) | Channel              | Frequency (MHz) | Channel              | Frequency (MHz) | Channel               | Frequency (MHz) |
| 185                  | 6875*           | 187                  | 6885            | 199                  | 6945            | 207                   | 6985            |
| 189                  | 6895            | 195                  | 6925            | 215                  | 7025            |                       |                 |
| 193                  | 6915            | 203                  | 6965            |                      |                 |                       |                 |
| 197                  | 6935            | 211                  | 7005            |                      |                 |                       |                 |
| 201                  | 6955            | 219                  | 7045            |                      |                 |                       |                 |
| 205                  | 6975            | 227                  | 7085            |                      |                 |                       |                 |
| 209                  | 6995            |                      |                 |                      |                 |                       |                 |
| 213                  | 7015            |                      |                 |                      |                 |                       |                 |
| 217                  | 7035            |                      |                 |                      |                 |                       |                 |
| 221                  | 7055            |                      |                 |                      |                 |                       |                 |
| 225                  | 7075            |                      |                 |                      |                 |                       |                 |
| 229                  | 7095            |                      |                 |                      |                 |                       |                 |
| 233                  | 7115            |                      |                 |                      |                 |                       |                 |

Note: \* means this is a straddle channel

(3) Table for Filed Antenna:  
For Screen size 8 Inch Table top:

| Antenna | Manufacture                                       | Part number | Type | Connector | Frequency (MHz) | Gain (dBi) |
|---------|---------------------------------------------------|-------------|------|-----------|-----------------|------------|
| Main    | SHENZHEN<br>SUNWAY<br>COMMUNICATIO<br>N CO., LTD. | 1100016748  | FPC  | I-PEX     | 2420-2480       | 0.65       |
|         |                                                   |             |      |           | 5150-5250       | 3.97       |
|         |                                                   |             |      |           | 5750-5850       | 4.23       |
|         |                                                   |             |      |           | 5950-6450       | 4.60       |
|         |                                                   |             |      |           | 6450-6550       | 3.47       |
|         |                                                   |             |      |           | 6550-6850       | 3.47       |
| Aux     | SHENZHEN<br>SUNWAY<br>COMMUNICATIO<br>N CO., LTD. | 1100016749  | FPC  | I-PEX     | 6850-7150       | 2.41       |
|         |                                                   |             |      |           | 2420-2480       | 2.19       |
|         |                                                   |             |      |           | 5150-5250       | 3.06       |
|         |                                                   |             |      |           | 5750-5850       | 5.65       |
|         |                                                   |             |      |           | 5950-6450       | 4.73       |
|         |                                                   |             |      |           | 6450-6550       | 2.83       |
|         |                                                   |             |      |           | 6550-6850       | 3.76       |
|         |                                                   |             |      |           | 6850-7150       | 3.76       |

For Screen size 10 Inch Table top:

| Antenna | Manufacture                                       | Part number | Type | Connector | Frequency (MHz) | Gain (dBi) |
|---------|---------------------------------------------------|-------------|------|-----------|-----------------|------------|
| Main    | SHENZHEN<br>SUNWAY<br>COMMUNICATIO<br>N CO., LTD. | 1100016748  | FPC  | I-PEX     | 2420-2480       | 2.41       |
|         |                                                   |             |      |           | 5150-5250       | 1.26       |
|         |                                                   |             |      |           | 5750-5850       | 4.79       |
|         |                                                   |             |      |           | 5950-6450       | 3.54       |
|         |                                                   |             |      |           | 6450-6550       | 3.57       |
|         |                                                   |             |      |           | 6550-6850       | 3.57       |
| Aux     | SHENZHEN<br>SUNWAY<br>COMMUNICATIO<br>N CO., LTD. | 1100016749  | FPC  | I-PEX     | 6850-7150       | 2.78       |
|         |                                                   |             |      |           | 2420-2480       | 1.72       |
|         |                                                   |             |      |           | 5150-5250       | 2.61       |
|         |                                                   |             |      |           | 5750-5850       | 4.52       |
|         |                                                   |             |      |           | 5950-6450       | 4.77       |
|         |                                                   |             |      |           | 6450-6550       | 5.26       |
|         |                                                   |             |      |           | 6550-6850       | 5.96       |
|         |                                                   |             |      |           | 6850-7150       | 5.96       |

NOTE:

- Antenna gain higher is used for testing.
- The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R).
- Directional Gain =  $10\log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{Gn/20})^2 / N_{ANT}] = 7.86 \text{ dBi}$ .

- (4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

(5) Operating Mode and Antenna Configuration

| TX Mode               | Operating Mode | 2TX           |
|-----------------------|----------------|---------------|
| IEEE 802.11ax (HE20)  |                | V (Main+ Aux) |
| IEEE 802.11ax (HE40)  |                | V (Main+ Aux) |
| IEEE 802.11ax (HE80)  |                | V (Main+ Aux) |
| IEEE 802.11ax (HE160) |                | V (Main+ Aux) |

## 2.2 TEST MODES

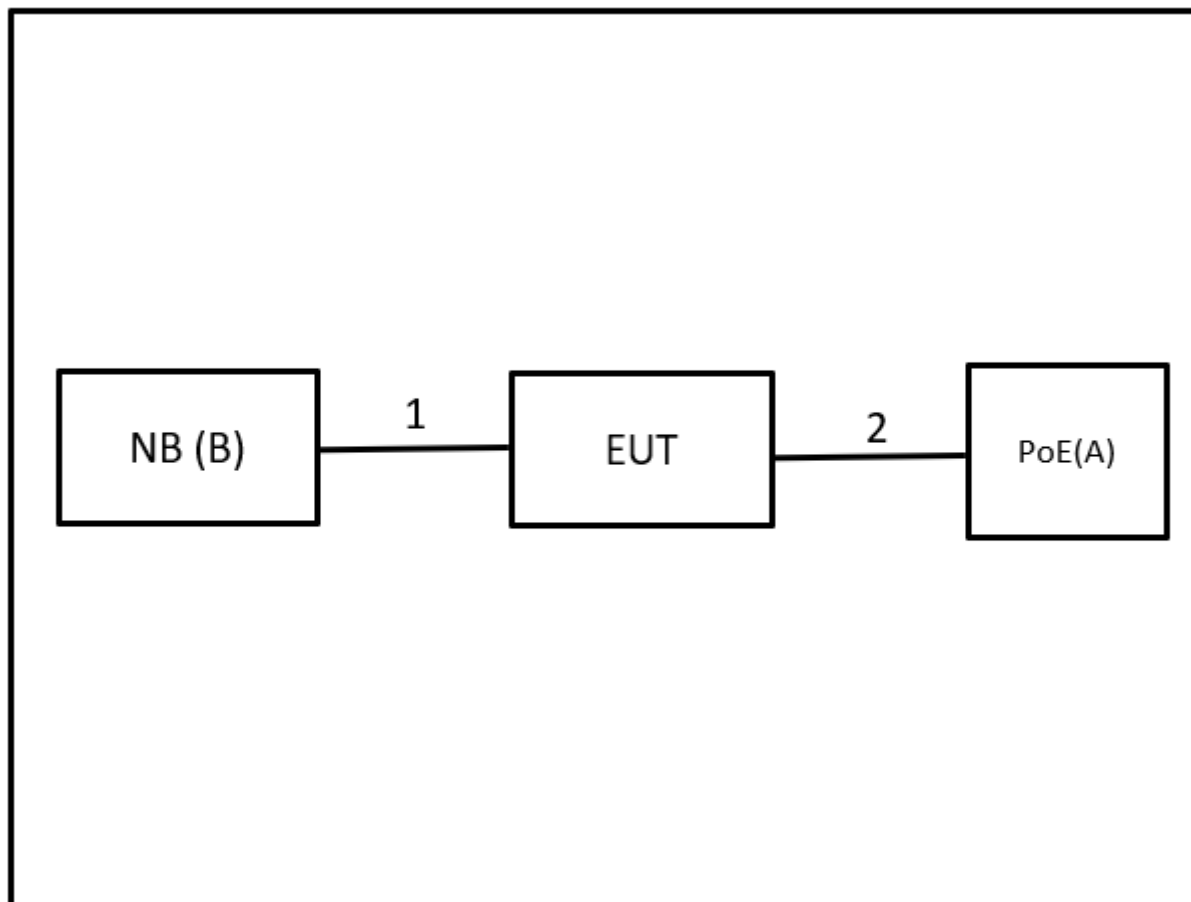
| Test Items                                                                                                                      | Test mode             | Channel                                             | Note     |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------|----------|
| Undesirable emissions<br>(below 1GHz)                                                                                           | IEEE 802.11ax (HE20)  | 1                                                   | -        |
| Undesirable emissions<br>(above 1GHz)                                                                                           | IEEE 802.11ax (HE20)  | 1/93, 97/113<br>117/181, 185/233                    | Bandedge |
|                                                                                                                                 | IEEE 802.11ax (HE40)  | 3/91, 99/107<br>115/179, 187/227                    |          |
|                                                                                                                                 | IEEE 802.11ax (HE80)  | 7/87, 103<br>119/135/167, 183/215                   |          |
|                                                                                                                                 | IEEE 802.11ax (HE160) | 15/79, 111<br>143, 207                              |          |
|                                                                                                                                 | IEEE 802.11ax (HE20)  | 1/45/93<br>97/105/113<br>117/149/181<br>185/209/233 | Harmonic |
|                                                                                                                                 | IEEE 802.11ax (HE40)  | 3/43/91, 99/107<br>115/147/179<br>187/203/227       |          |
|                                                                                                                                 | IEEE 802.11ax (HE80)  | 7/39/87, 103<br>119/135/167/183<br>199/215          |          |
|                                                                                                                                 | IEEE 802.11ax (HE160) | 15/79, 111<br>143, 207                              |          |
|                                                                                                                                 | IEEE 802.11ax (HE20)  | 1                                                   |          |
|                                                                                                                                 | IEEE 802.11ax (HE20)  | 1                                                   |          |
| Undesirable emissions<br>(above 18GHz)                                                                                          | IEEE 802.11ax (HE20)  | 1                                                   | -        |
| Maximum e.i.r.p. &<br>Maximum transmitter channel<br>bandwidth &<br>Maximum power spectral density &<br>In-band emission (Mask) | IEEE 802.11ax (HE20)  | 1/45/93<br>97/105/113<br>117/149/181<br>185/209/233 | -        |
|                                                                                                                                 | IEEE 802.11ax (HE40)  | 3/43/91, 99/107<br>115/147/179<br>187/203/227       |          |
|                                                                                                                                 | IEEE 802.11ax (HE80)  | 7/39/87, 103<br>119/135/151/167<br>183/199/215      |          |
|                                                                                                                                 | IEEE 802.11ax (HE160) | 15/79, 111<br>143, 207                              |          |
| Contention-based protocol                                                                                                       | IEEE 802.11ax (HE20)  | 37, 101<br>149, 213                                 | -        |
|                                                                                                                                 | IEEE 802.11ax (HE160) | 47, 111<br>143, 207                                 |          |

### NOTE:

- (1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Vertical) is recorded.
- (2) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.
- (3) The output power and power spectral density of all supported configurations of Full and Partial RU were all tested and recorded in the report, for other test items only the worst RU mode was tested and recorded.

### 2.3 TESTED CONFIGURATION DIAGRAM

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.



### 2.4 SUPPORT UNITS

| Item | Equipment | Brand   | Model No.     | Series No. | Remarks                    |
|------|-----------|---------|---------------|------------|----------------------------|
| A    | PoE       | NETGEAR | GS305EPP      | N/A        | Supplied by test requester |
| B    | NB        | dyna    | Portege-X40 G | N/A        | Furnished by test lab.     |

| Item | Shielded | Ferrite Core | Length | Cable Type     | Remarks                    |
|------|----------|--------------|--------|----------------|----------------------------|
| 1    | N/A      | N/A          | 1.5m   | TypeC to TypeC | Furnished by test lab.     |
| 2    | N/A      | N/A          | 1m     | RJ45           | Supplied by test requester |

### 3 MAXIMUM E.I.R.P. TEST

#### 3.1 LIMITS

According to 15.407(a)(4)(5)(6)(7)(8) the limits are as follows:

| Equipment Category                            | Band                      | Maximum e.i.r.p. Limit                                                                                                                       |
|-----------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Standard power access point*<br>Fixed client* | U-NII 5 (5.925-6.425 GHz) | 36 dBm                                                                                                                                       |
|                                               | U-NII 7 (6.525-6.875 GHz) |                                                                                                                                              |
| Indoor access point<br>Subordinate device     | U-NII 5 (5.925-6.425 GHz) | 30 dBm                                                                                                                                       |
|                                               | U-NII 6 (6.425-6.525 GHz) |                                                                                                                                              |
|                                               | U-NII 7 (6.525-6.875 GHz) |                                                                                                                                              |
|                                               | U-NII 8 (6.875-7.125 GHz) |                                                                                                                                              |
| Standard power access point<br>client devices | U-NII 5 (5.925-6.425 GHz) | 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power |
|                                               | U-NII 6 (6.425-6.525 GHz) |                                                                                                                                              |
|                                               | U-NII 7 (6.525-6.875 GHz) |                                                                                                                                              |
|                                               | U-NII 8 (6.875-7.125 GHz) |                                                                                                                                              |
| Indoor access point client<br>devices         | U-NII 5 (5.925-6.425 GHz) | 24 dBm                                                                                                                                       |
|                                               | U-NII 6 (6.425-6.525 GHz) |                                                                                                                                              |
|                                               | U-NII 7 (6.525-6.875 GHz) |                                                                                                                                              |
|                                               | U-NII 8 (6.875-7.125 GHz) |                                                                                                                                              |

\* For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

According to 15.407(a)(11):

The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

#### 3.2 TEST PROCEDURE

Referring to FCC KDB 987594 D02, clause E. and FCC KDB 789033 D02, clause E. 3 Measurement using a Power Meter (PM):

- a. The maximum peak conducted output power was performed in accordance with method of clause E. 3. a) Method PM (Measurement using an RF average power meter):
  - (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
    - The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
    - At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
    - The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
  - (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal.
  - (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
  - (iv) Adjust the measurement in dBm by adding  $10 \log (1/x)$  where x is the duty cycle (e.g.,  $10 \log (1/0.25)$  if the duty cycle is 25%).
- b. The maximum peak conducted output power was performed in accordance with method of clause E. 3. b) Method PM-G (Measurement using a gated RF average power meter):
 

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Referring to FCC KDB 987594 D02, clause H. Measurement of emission at elevation angles higher than 30° from horizon:

Note: Elevation angle is defined as 0° is horizontal and 90° is straight-up.

#### **For fixed infrastructure, not electrically or mechanically steerable beam antenna**

- a. If elevation plane radiation pattern is available:
  - (i) Determine the device intended mounting elevation angle and define 0° reference angle on the elevation plane radiation pattern.
  - (ii) Indicate any radiation pattern between 30° and 90° which has the highest gain.
  - (iii) Calculate the EIRP based on this highest gain and conducted output power.
  - (iv) Compare to the 125 mW limit to establish compliance.
  - (v) Include the elevation pattern data in the application filing with the test report to show how the calculations are made.

Note: For MIMO devices, take the maximum gain of each antenna and apply the guidance in KDB Publication 662911 for calculating the overall gain including directional gain for the maximum EIRP calculation.

- b. If the elevation plane radiation pattern is not available, but the antenna type (such as dipole omnidirectional, Yagi, parabolic, or sector antenna) has a symmetrical elevation plane pattern referenced at the main beam and all lobes on the main beam elevation plane have highest gains, then the following measurement method is acceptable to determine compliance:
  - (i) Determine the device's intended mounting elevation angle referenced to the horizon.
  - (ii) Rotate the EUT antenna by 90° around the main beam axis in a horizontal position to transform the measurement in elevation angle into an azimuth angle and define a 0° reference angle based on the device's intended mounting elevation angle.
  - (iii) Move the test antenna along the horizontal arc, or rotate the turntable with the EUT antenna placed at the center, between 30° and 90° relative to the 0° reference angle, and then continuing down from 90° to 30° on the other side of the pattern, while maintaining the test antenna pointing with constant distance to the EUT antenna. Search for the spot which has the highest measured emission. Both horizontal and vertical polarization shall be investigated to determine the maximum radiated emission level.

Note: Moving the test antenna along the horizontal arc, or rotating the turntable, shall be performed in an angular step size as small as possible, but not larger than 3°.

- (iv) Calculate the EIRP based on the highest measured emission. Compare to the limit of 125 mW to determine compliance.
- (v) The antenna pattern measurements must be included in the filing.

#### **For All Other Antenna Types**

For all other antenna types (such as patch antennas, array antennas, antennas with irregular radiator shapes, etc.) which have any combination of following characteristics:

- Asymmetrical, complex radiation patterns
- 2-D or 3-D steerable beam
- Portable/mobile, not fixed infrastructure device

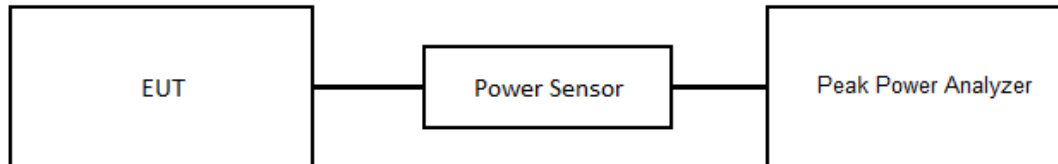
Provide the following information in the report:

- a. Describe what type of antenna is used.
- b. Determine by calculation, measurement or simulation, all radiation lobes/beams, which have EIRP higher than 125 mW within a 3-dB elevation beamwidth.
- c. Provide an explanation of how these antenna beams are controlled to be kept below the 30° elevation angle. The explanation should include device installation instructions, mechanical control, electro-mechanical control or software algorithms, if the beams are electrically controlled by software.

### 3.3 DEVIATION FROM TEST STANDARD

No deviation.

### 3.4 TEST SETUP



### 3.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 3.6 TEST RESULT

Please refer to the APPENDIX A.

## 4 MAXIMUM TRANSMITTER CHANNEL BANDWIDTH TEST

### 4.1 LIMITS

According to 15.407(a)(10):

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

### 4.2 TEST PROCEDURE

#### For Emission Bandwidth (EBW):

Referring to FCC KDB 987594 D02, clause C. and FCC KDB 789033 D02, clause C. 1. Emission Bandwidth (EBW):

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

#### For 99% Occupied Bandwidth:

Referring to FCC KDB 987594 D02, clause D. and FCC KDB 789033 D02, clause D. 99% Occupied Bandwidth:

The 99% occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. Measurement of the 99% occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques. Measurements of 99% occupied bandwidth may also optionally be used in lieu of the EBW to define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with Section 15.407(a).

The following procedure shall be used for measuring (99%) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1% to 5% of the OBW
4. Set VBW  $\geq 3 \times$  RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99% power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

#### 4.3 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.4 TEST SETUP



#### 4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 4.6 TEST RESULT

Please refer to the APPENDIX B.

## 5 MAXIMUM POWER SPECTRAL DENSITY TEST

### 5.1 LIMITS

According to 15.407(a)(4)(5)(6)(7)(8) the limits are as follows:

| Equipment Category                            | Band                      | Maximum Power Spectral Density (e.i.r.p.) Limit |
|-----------------------------------------------|---------------------------|-------------------------------------------------|
| Standard power access point<br>Fixed client   | U-NII 5 (5.925-6.425 GHz) | 23 dBm/MHz                                      |
|                                               | U-NII 7 (6.525-6.875 GHz) |                                                 |
| Indoor access point<br>Subordinate device     | U-NII 5 (5.925-6.425 GHz) | 5 dBm/MHz                                       |
|                                               | U-NII 6 (6.425-6.525 GHz) |                                                 |
|                                               | U-NII 7 (6.525-6.875 GHz) |                                                 |
|                                               | U-NII 8 (6.875-7.125 GHz) |                                                 |
| Standard power access point<br>client devices | U-NII 5 (5.925-6.425 GHz) | 17 dBm/MHz                                      |
|                                               | U-NII 6 (6.425-6.525 GHz) |                                                 |
|                                               | U-NII 7 (6.525-6.875 GHz) |                                                 |
|                                               | U-NII 8 (6.875-7.125 GHz) |                                                 |
| Indoor access point client<br>devices         | U-NII 5 (5.925-6.425 GHz) | -1 dBm/MHz                                      |
|                                               | U-NII 6 (6.425-6.525 GHz) |                                                 |
|                                               | U-NII 7 (6.525-6.875 GHz) |                                                 |
|                                               | U-NII 8 (6.875-7.125 GHz) |                                                 |

### 5.2 TEST PROCEDURE

Referring to FCC KDB 987594 D02, clause F. and FCC KDB 789033 D02, clause F. Maximum Power Spectral Density (PSD):

Method SA-1 is used.

- Set Attenuation = auto.
- Span Frequency = Encompass the entire emissions bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW > 3 MHz.
- Detector = RMS.
- Trace mode = max hold.
- Sweep time = auto.
- Record the maximum value.
- Record the maximum value and add 10 log (1/ duty cycle).
- Record the maximum value and add 1 dB.

### 5.3 DEVIATION FROM TEST STANDARD

No deviation.

### 5.4 TEST SETUP



### 5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 5.6 TEST RESULT

Please refer to the APPENDIX C.

## 6 UNDESIRABLE EMISSIONS TEST

### 6.1 LIMITS

According to 15.407(b)(6) the limits are as follows:

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

According to FCC KDB 987594 D02, clause G. Unwanted Emission Measurement:

Use guidance in KDB 789033 for measurements below 1000 MHz and above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

| Item                                              | Maximum e.i.r.p. Limit | Maximum field strength Limit @ 3m |
|---------------------------------------------------|------------------------|-----------------------------------|
| Any emissions outside of the 5.925-7.125 GHz band | Peak: -7 dBm/MHz       | 88.2 dBuV/m                       |
|                                                   | Average: -27 dBm/MHz   | 68.2 dBuV/m                       |

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.

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

According to 15.407(b)(9) the limits are as follows:

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.

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

#### NOTE:

- (1) e.i.r.p. Limit (dBuV/m at 3m) = Power Limit(dBm) + 95.2. (Referring to FCC KDB 987594 D02, clause G.2.d)(iii))
- (2) Emission level (dBuV/m) = 20log Emission level (uV/m).  
3 m Emission level = 10 m Emission level + 20log(10 m/3 m).

(3) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain (if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

| Reading Level<br>(dBμV) |   | Correct Factor<br>(dB/m) |   | Measurement Value<br>(dBμV/m) |
|-------------------------|---|--------------------------|---|-------------------------------|
| 19.11                   | + | 2.11                     | = | 21.22                         |

| Measurement Value<br>(dBμV/m) |   | Limit Value<br>(dBμV/m) |   | Margin Level<br>(dB) |
|-------------------------------|---|-------------------------|---|----------------------|
| 21.22                         | - | 68.2                    | = | -46.98               |

| Spectrum Parameter                         | Setting                                         |
|--------------------------------------------|-------------------------------------------------|
| Attenuation                                | Auto                                            |
| Start Frequency                            | 1000 MHz                                        |
| Stop Frequency                             | 10th carrier harmonic                           |
| RBW / VBW<br>(Emission in restricted band) | 1MHz / 3MHz for Peak,<br>1MHz / 1/T for Average |

| Spectrum Parameter     | Setting                           |
|------------------------|-----------------------------------|
| Attenuation            | Auto                              |
| Start ~ Stop Frequency | 9KHz~90KHz for PK/AVG detector    |
| Start ~ Stop Frequency | 90KHz~110KHz for QP detector      |
| Start ~ Stop Frequency | 110KHz~490KHz for PK/AVG detector |
| Start ~ Stop Frequency | 490KHz~30MHz for QP detector      |
| Start ~ Stop Frequency | 30MHz~1000MHz for QP detector     |

## 6.2 TEST PROCEDURE

Referring to FCC KDB 987594 D02, clause G. and FCC KDB 789033 D02, clause G. Unwanted Emission Measurement:

For measurements below 30 MHz:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. 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.
- Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

For measurements 30 MHz to 40 GHz:

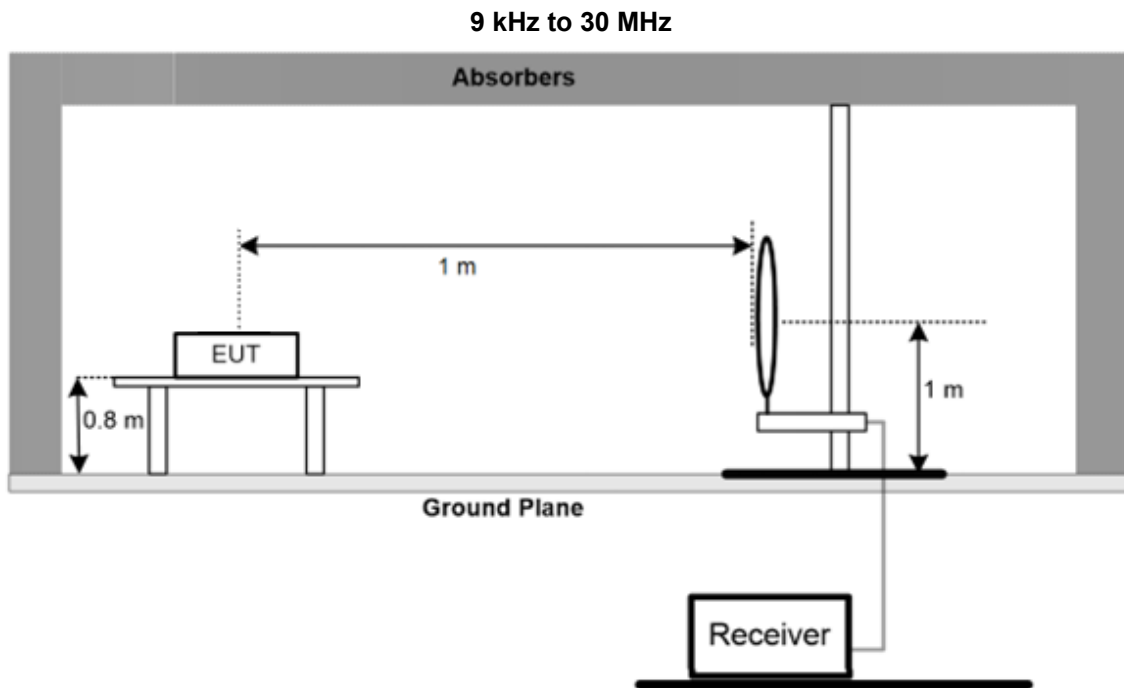
- The measuring distance of 1 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 30MHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (between 30 MHz to 1 GHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (between 1 GHz to 40 GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

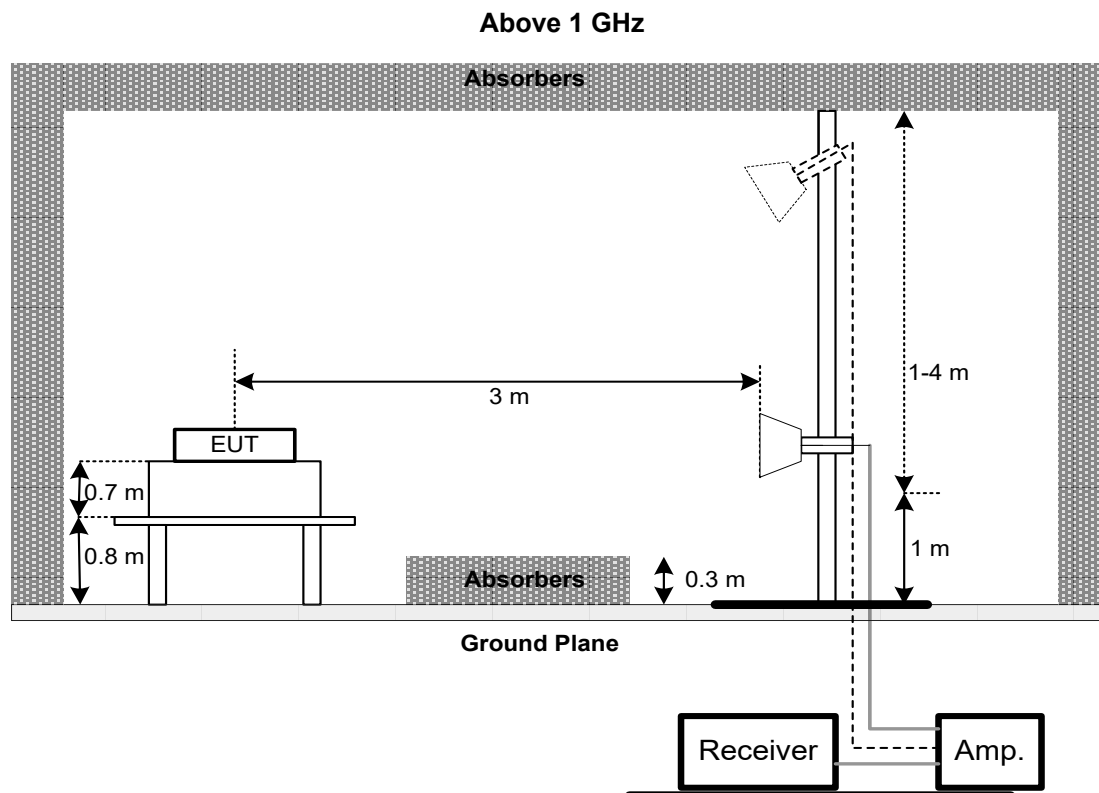
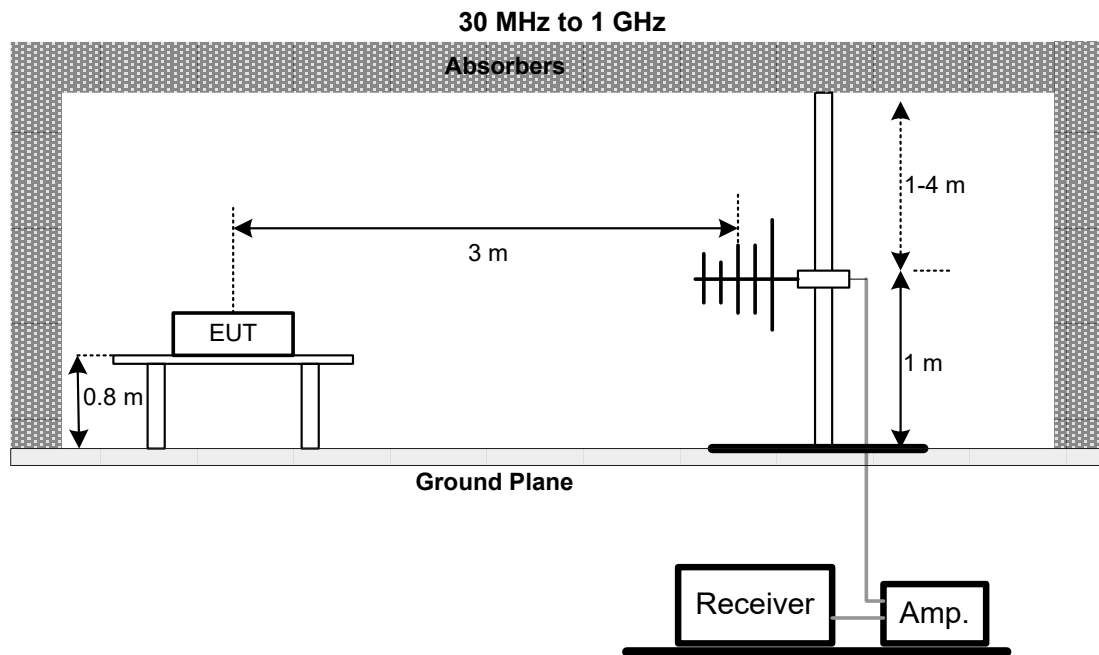
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- f. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- g. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- h. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (between 30 MHz to 1 GHz)
- i. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (between 30 MHz to 1 GHz)

### 6.3 DEVIATION FROM TEST STANDARD

No deviation.

### 6.4 TEST SETUP





## 6.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

NOTE:

- (1) Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

**6.6 TEST RESULT – 9 KHZ TO 30 MHZ**

Please refer to the APPENDIX D.

**6.7 TEST RESULT – 30 MHZ TO 1 GHZ**

Please refer to the APPENDIX E.

**6.8 TEST RESULT – ABOVE 1 GHZ**

Please refer to the APPENDIX F.

## 7 IN-BAND EMISSION (MASK) TEST

### 7.1 LIMITS

According to 15.407(b)(7) the limits are as follows:

| Item                     | Test Frequency Range                                                                                 | Power spectral density suppressed Limit |
|--------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------|
| In-Band Emissions (Mask) | at 1 MHz outside of channel edge                                                                     | 20 dB                                   |
|                          | at one channel bandwidth from the channel center                                                     | 28 dB                                   |
|                          | at one- and one-half times the channel bandwidth away from channel center                            | 40 dB                                   |
|                          | Emissions removed from the channel center by more than one- and one-half times the channel bandwidth | 40 dB                                   |

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.

### 7.2 TEST PROCEDURE

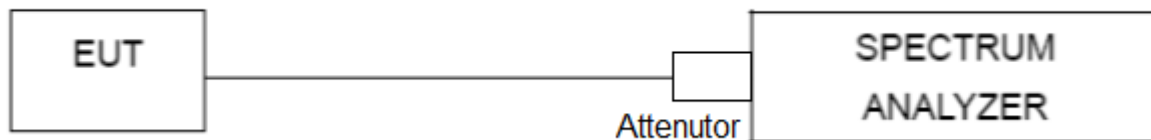
Referring to FCC KDB 987594 D02, clause J. In-Band Emissions:

- Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
- Set the reference level of the measuring equipment in accordance with procedure 4.1.5.2 of ANSI C63.10-2013.
- Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (This will be used to determine the channel edge.)
- Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
  - Set the span to encompass the entire 26 dB EBW of the signal.
  - Set RBW = same RBW used for 26 dB EBW measurement.
  - Set VBW  $\geq 3 \times$  RBW
  - Number of points in sweep  $\geq [2 \times \text{span} / \text{RBW}]$ .
  - Sweep time = auto.
  - Detector = RMS (i.e., power averaging)
  - Trace average at least 100 traces in power averaging (rms) mode.
  - Use the peak search function on the instrument to find the peak of the spectrum.
- For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
- Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
  - Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
  - Suppressed by 28 dB at one channel bandwidth from the channel center.
  - Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
- Adjust the span to encompass the entire mask as necessary.
- Clear trace.
- Trace average at least 100 traces in power averaging (rms) mode.
- Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

### 7.3 DEVIATION FROM TEST STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 7.6 TEST RESULT

Please refer to the APPENDIX G.

## 8 CONTENTION-BASED PROTOCOL TEST

### 8.1 LIMITS

According to 15.407(d)(6) the limits are as follows:

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

According to FCC KDB 987594 D02, clause I. Contention Based Protocol:

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

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 (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm)<sup>1</sup>. 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.

### 8.2 TEST PROCEDURE

Referring to FCC KDB 987594 D02, clause I. Contention Based Protocol:

**Table 1. Criteria to determine number of times detection threshold test may be performed**

| If                                    | Number of Tests                                              | Placement of Incumbent Transmission                                                                                                                                                          |
|---------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| $BW_{EUT} \leq BW_{Inc}$              | Once                                                         | Tune incumbent and EUT transmissions ( $f_{c1} = f_{c2}$ )                                                                                                                                   |
| $BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$  | Once                                                         | Incumbent transmission is contained within $BW_{EUT}$                                                                                                                                        |
| $2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$ | Twice. Incumbent transmission is contained within $BW_{EUT}$ | Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel                                                                  |
| $BW_{EUT} > 4BW_{Inc}$                | Three times                                                  | Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel |

#### For Conducted measurement:

- a. Configure the EUT to transmit with a constant duty cycle.
- b. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
- c. 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. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- d. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step b.
- e. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- f. 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.
- g. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
- h. 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.
- i. (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.
- j. 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 e, choose a different center frequency for the AWGN signal and repeat the process.

#### For Radiated measurement:

- a. Using the AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- b. Connect the AWGN signal source to antenna 1 and transmit the signal (RF ON).
- c. Using signal analyzer 1 and antenna 2, measure the AWGN signal power level. Align antenna 2 and antenna 1 to maximize emission.
- d. Using equation  $P_2 = P_{\text{meas}} + L - G_2$ , correct the measured power  $P_{\text{meas}}$  by the gain of antenna 2,  $G_2$  and all cable losses and attenuations  $L$  to obtain the AWGN signal power level at antenna 2,  $P_2$ .
- e. Set the corrected power  $P_2$  to an extremely low level (more than 20 dB below the -62 dBm threshold).
- f. Place the EUT exactly where antenna 2 was. Configure the EUT to transmit a constant duty cycle.
- g. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
- h. Set the signal analyzer 1 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 EUT.
- i. Monitor the signal analyzer 1 to verify if AWGN signal has been detected and EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- j. Determine and record the AWGN signal power level at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect the AWGN signal with 90% (or better) level of certainty.
- k. 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 a, choose a different center frequency for the AWGN signal and repeat the process.

### 8.3 DEVIATION FROM TEST STANDARD

No deviation.

## 8.4 TEST SETUP

For Conducted measurement:

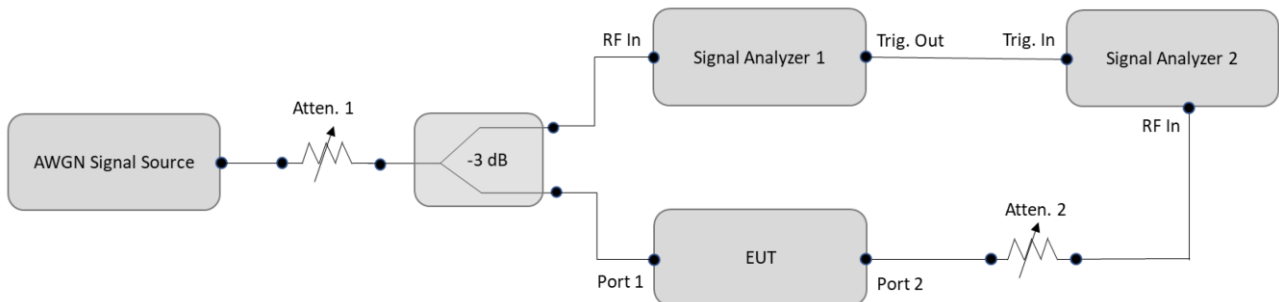


Figure 2. Contention-based protocol test setup, conducted method Step-by-Step Procedure, Conducted Setup

For Radiated measurement:

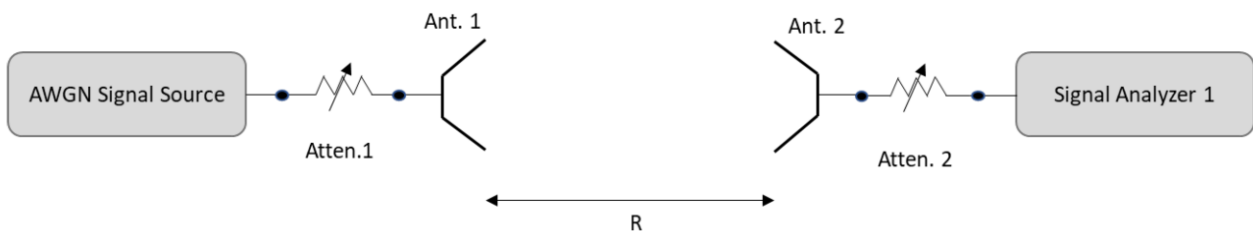


Figure 3. Contention-based protocol test setup, radiated method, power measurement

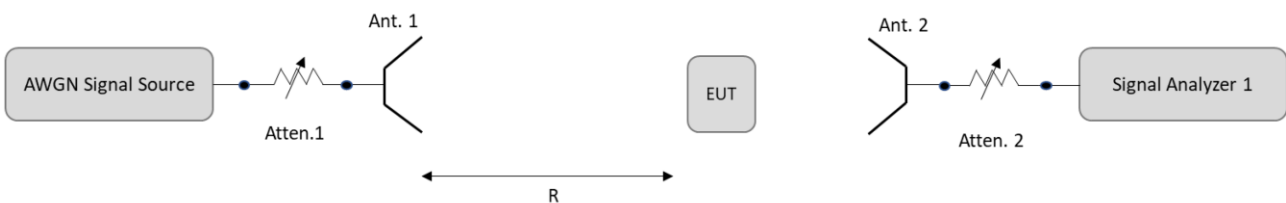


Figure 4. Contention-based protocol test setup, radiated method, detection threshold measurement

## 8.5 EUT OPERATING CONDITIONS

The EUT was Configured to be in normally transmitting mode with a constant duty cycle.

## 8.6 TEST RESULT

Please refer to the APPENDIX H.

## 9 LIST OF MEASURING EQUIPMENTS

| Maximum e.i.r.p. |                     |              |          |            |                 |                  |
|------------------|---------------------|--------------|----------|------------|-----------------|------------------|
| Item             | Kind of Equipment   | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1                | Peak Power Analyzer | Keysight     | 8990B    | MY51000517 | 2024/3/12       | 2025/3/11        |
| 2                | Power Sensor        | Keysight     | N1923A   | MY58310005 | 2024/3/12       | 2025/3/11        |

| Maximum transmitter channel bandwidth & Maximum power spectral density & In-band emission (Mask) |                       |              |          |            |                 |                  |
|--------------------------------------------------------------------------------------------------|-----------------------|--------------|----------|------------|-----------------|------------------|
| Item                                                                                             | Kind of Equipment     | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1                                                                                                | EXA Spectrum Analyzer | Keysight     | N9010A   | MY54200240 | 2024/6/27       | 2025/6/26        |

| Undesirable Emissions |                      |                 |                             |             |                 |                  |
|-----------------------|----------------------|-----------------|-----------------------------|-------------|-----------------|------------------|
| Item                  | Kind of Equipment    | Manufacturer    | Type No.                    | Serial No.  | Calibrated Date | Calibrated Until |
| 1                     | Preamplifier         | EMCI            | EMC330N                     | 980850      | 2024/9/5        | 2025/9/4         |
| 2                     | Preamplifier         | EMCI            | EMC118A45SE                 | 980819      | 2025/3/5        | 2026/3/4         |
| 3                     | Pre-Amplifier        | EMCI            | EMC184045SE                 | 980907      | 2024/9/4        | 2025/9/3         |
| 4                     | Preamplifier         | EMCI            | EMC001340                   | 980579      | 2024/9/4        | 2025/9/3         |
| 5                     | Test Cable           | EMCI            | EMC104-SM-1000              | 180809      | 2025/3/5        | 2026/3/4         |
| 6                     | Test Cable           | EMCI            | EMC104-SM-SM-3000           | 220322      | 2025/3/5        | 2026/3/4         |
| 7                     | Test Cable           | EMCI            | EMC104-SM-SM-7000           | 220324      | 2025/3/5        | 2026/3/4         |
| 8                     | EXA Signal Analyzer  | keysight        | N9020B                      | MY57120120  | 2025/2/19       | 2026/2/18        |
| 9                     | Loop Ant             | Electro-Metrics | EMCI-LPA600                 | 291         | 2024/9/9        | 2025/9/8         |
| 10                    | Horn Antenna         | RFSPIN          | DRH18-E                     | 211202A18EN | 2024/5/9        | 2025/5/8         |
| 11                    | Horn Ant             | Schwarzbeck     | BBHA 9170D                  | 1136        | 2024/5/17       | 2025/5/16        |
| 12                    | Log-bicon Antenna    | Schwarzbeck     | VULB9168                    | 1369        | 2024/6/14       | 2025/6/13        |
| 13                    | 6dB Attenuator       | EMCI            | EMCI-N-6-06                 | AT-06001    | 2024/6/14       | 2025/6/13        |
| 14                    | Test Cable           | EMCI            | EMC101G-KM-KM-3000          | 220329      | 2025/3/12       | 2026/3/11        |
| 15                    | Test Cable           | EMCI            | EMC102-KM-KM-1000           | 220327      | 2025/3/12       | 2026/3/11        |
| 16                    | Measurement Software | EZ              | EZ EMC (Version NB-03A1-01) | N/A         | N/A             | N/A              |

| Contention Based Protocol |                             |              |           |            |                 |                  |
|---------------------------|-----------------------------|--------------|-----------|------------|-----------------|------------------|
| Item                      | Kind of Equipment           | Manufacturer | Type No.  | Serial No. | Calibrated Date | Calibrated Until |
| 1                         | MXA Signal Analyzer         | Keysight     | N9020B    | MY63490160 | 2025/2/6        | 2026/2/5         |
| 2                         | MXG Vector Signal Generator | Agilent      | N5182B    | MY51350711 | 2025/2/21       | 2026/2/20        |
| 3                         | Frequency Extender          | Keysight     | N5182BX07 | MY59360246 | 2025/2/21       | 2026/2/20        |

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.  
All calibration period of equipment list is one year.

## **10 EUT TEST PHOTOS**

Please refer to document Appendix No.: TP-2502T154-FCCP-1 (APPENDIX-TEST PHOTOS).

## **11 EUT PHOTOS**

Please refer to document Appendix No.: EP-2502T154-1 (APPENDIX-EUT PHOTOS).

## **APPENDIX A MAXIMUM E.I.R.P.**

|           |                                    |             |          |
|-----------|------------------------------------|-------------|----------|
| Test Mode | IEEE 802.11ax (HE20)_ Main Antenna | Tested Date | 2025/3/6 |
|-----------|------------------------------------|-------------|----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 5955                 | -1.01               | 0.0008            | 6.69           | 0.0047       | 24.00                | 0.2512             | Pass   |
| 6175                 | -0.53               | 0.0009            | 7.17           | 0.0052       | 24.00                | 0.2512             | Pass   |
| 6415                 | 0.15                | 0.0010            | 7.85           | 0.0061       | 24.00                | 0.2512             | Pass   |
| 6435                 | 0.84                | 0.0012            | 7.76           | 0.0060       | 24.00                | 0.2512             | Pass   |
| 6475                 | -0.51               | 0.0009            | 6.41           | 0.0044       | 24.00                | 0.2512             | Pass   |
| 6515                 | -0.75               | 0.0008            | 6.17           | 0.0041       | 24.00                | 0.2512             | Pass   |
| 6535                 | -1.05               | 0.0008            | 6.81           | 0.0048       | 24.00                | 0.2512             | Pass   |
| 6695                 | -1.18               | 0.0008            | 6.68           | 0.0047       | 24.00                | 0.2512             | Pass   |
| 6855                 | -1.84               | 0.0007            | 6.02           | 0.0040       | 24.00                | 0.2512             | Pass   |
| 6875                 | -2.32               | 0.0006            | 4.54           | 0.0028       | 24.00                | 0.2512             | Pass   |
| 6995                 | -0.87               | 0.0008            | 5.99           | 0.0040       | 24.00                | 0.2512             | Pass   |
| 7115                 | -0.34               | 0.0009            | 6.52           | 0.0045       | 24.00                | 0.2512             | Pass   |

|           |                                   |             |          |
|-----------|-----------------------------------|-------------|----------|
| Test Mode | IEEE 802.11ax (HE20)_ Aux Antenna | Tested Date | 2025/3/6 |
|-----------|-----------------------------------|-------------|----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 5955                 | 0.02                | 0.0010            | 7.72           | 0.0059       | 24.00                | 0.2512             | Pass   |
| 6175                 | 0.10                | 0.0010            | 7.80           | 0.0060       | 24.00                | 0.2512             | Pass   |
| 6415                 | -0.39               | 0.0009            | 7.31           | 0.0054       | 24.00                | 0.2512             | Pass   |
| 6435                 | -0.11               | 0.0010            | 6.81           | 0.0048       | 24.00                | 0.2512             | Pass   |
| 6475                 | -1.12               | 0.0008            | 5.80           | 0.0038       | 24.00                | 0.2512             | Pass   |
| 6515                 | -1.45               | 0.0007            | 5.47           | 0.0035       | 24.00                | 0.2512             | Pass   |
| 6535                 | -1.36               | 0.0007            | 6.50           | 0.0045       | 24.00                | 0.2512             | Pass   |
| 6695                 | -1.08               | 0.0008            | 6.78           | 0.0048       | 24.00                | 0.2512             | Pass   |
| 6855                 | -0.57               | 0.0009            | 7.29           | 0.0054       | 24.00                | 0.2512             | Pass   |
| 6875                 | -0.97               | 0.0008            | 5.89           | 0.0039       | 24.00                | 0.2512             | Pass   |
| 6995                 | 0.11                | 0.0010            | 6.97           | 0.0050       | 24.00                | 0.2512             | Pass   |
| 7115                 | -0.17               | 0.0010            | 6.69           | 0.0047       | 24.00                | 0.2512             | Pass   |

|           |                             |             |          |
|-----------|-----------------------------|-------------|----------|
| Test Mode | IEEE 802.11ax (HE20)_ Total | Tested Date | 2025/3/6 |
|-----------|-----------------------------|-------------|----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 5955                 | 2.55                | 0.0018            | 10.25          | 0.0106       | 24.00                | 0.2512             | Pass   |
| 6175                 | 2.81                | 0.0019            | 10.51          | 0.0112       | 24.00                | 0.2512             | Pass   |
| 6415                 | 2.90                | 0.0019            | 10.60          | 0.0115       | 24.00                | 0.2512             | Pass   |
| 6435                 | 3.40                | 0.0022            | 10.32          | 0.0108       | 24.00                | 0.2512             | Pass   |
| 6475                 | 2.21                | 0.0017            | 9.13           | 0.0082       | 24.00                | 0.2512             | Pass   |
| 6515                 | 1.92                | 0.0016            | 8.84           | 0.0077       | 24.00                | 0.2512             | Pass   |
| 6535                 | 1.81                | 0.0015            | 9.67           | 0.0093       | 24.00                | 0.2512             | Pass   |
| 6695                 | 1.88                | 0.0015            | 9.74           | 0.0094       | 24.00                | 0.2512             | Pass   |
| 6855                 | 1.85                | 0.0015            | 9.71           | 0.0094       | 24.00                | 0.2512             | Pass   |
| 6875                 | 1.42                | 0.0014            | 8.28           | 0.0067       | 24.00                | 0.2512             | Pass   |
| 6995                 | 2.66                | 0.0018            | 9.52           | 0.0089       | 24.00                | 0.2512             | Pass   |
| 7115                 | 2.76                | 0.0019            | 9.62           | 0.0092       | 24.00                | 0.2512             | Pass   |

|           |                                    |             |          |
|-----------|------------------------------------|-------------|----------|
| Test Mode | IEEE 802.11ax (HE40)_ Main Antenna | Tested Date | 2025/3/6 |
|-----------|------------------------------------|-------------|----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 5965                 | 2.10                | 0.0016            | 9.80           | 0.0095       | 24.00                | 0.2512             | Pass   |
| 6165                 | 2.39                | 0.0017            | 10.09          | 0.0102       | 24.00                | 0.2512             | Pass   |
| 6405                 | 2.45                | 0.0018            | 10.15          | 0.0104       | 24.00                | 0.2512             | Pass   |
| 6445                 | 3.29                | 0.0021            | 10.21          | 0.0105       | 24.00                | 0.2512             | Pass   |
| 6485                 | 3.15                | 0.0021            | 10.07          | 0.0102       | 24.00                | 0.2512             | Pass   |
| 6525                 | 2.44                | 0.0018            | 10.30          | 0.0107       | 24.00                | 0.2512             | Pass   |
| 6685                 | 2.23                | 0.0017            | 10.09          | 0.0102       | 24.00                | 0.2512             | Pass   |
| 6845                 | 1.53                | 0.0014            | 9.39           | 0.0087       | 24.00                | 0.2512             | Pass   |
| 6885                 | 2.76                | 0.0019            | 9.62           | 0.0092       | 24.00                | 0.2512             | Pass   |
| 6965                 | 3.12                | 0.0021            | 9.98           | 0.0100       | 24.00                | 0.2512             | Pass   |
| 7085                 | 2.98                | 0.0020            | 9.84           | 0.0096       | 24.00                | 0.2512             | Pass   |

|           |                                   |             |          |
|-----------|-----------------------------------|-------------|----------|
| Test Mode | IEEE 802.11ax (HE40)_ Aux Antenna | Tested Date | 2025/3/6 |
|-----------|-----------------------------------|-------------|----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 5965                 | 2.96                | 0.0020            | 10.66          | 0.0116       | 24.00                | 0.2512             | Pass   |
| 6165                 | 3.23                | 0.0021            | 10.93          | 0.0124       | 24.00                | 0.2512             | Pass   |
| 6405                 | 2.47                | 0.0018            | 10.17          | 0.0104       | 24.00                | 0.2512             | Pass   |
| 6445                 | 3.15                | 0.0021            | 10.07          | 0.0102       | 24.00                | 0.2512             | Pass   |
| 6485                 | 3.17                | 0.0021            | 10.09          | 0.0102       | 24.00                | 0.2512             | Pass   |
| 6525                 | 2.56                | 0.0018            | 10.42          | 0.0110       | 24.00                | 0.2512             | Pass   |
| 6685                 | 2.67                | 0.0018            | 10.53          | 0.0113       | 24.00                | 0.2512             | Pass   |
| 6845                 | 3.05                | 0.0020            | 10.91          | 0.0123       | 24.00                | 0.2512             | Pass   |
| 6885                 | 4.28                | 0.0027            | 11.14          | 0.0130       | 24.00                | 0.2512             | Pass   |
| 6965                 | 4.74                | 0.0030            | 11.60          | 0.0145       | 24.00                | 0.2512             | Pass   |
| 7085                 | 3.37                | 0.0022            | 10.23          | 0.0105       | 24.00                | 0.2512             | Pass   |

|           |                             |             |          |
|-----------|-----------------------------|-------------|----------|
| Test Mode | IEEE 802.11ax (HE40)_ Total | Tested Date | 2025/3/6 |
|-----------|-----------------------------|-------------|----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 5965                 | 5.56                | 0.0036            | 13.26          | 0.0212       | 24.00                | 0.2512             | Pass   |
| 6165                 | 5.84                | 0.0038            | 13.54          | 0.0226       | 24.00                | 0.2512             | Pass   |
| 6405                 | 5.47                | 0.0035            | 13.17          | 0.0208       | 24.00                | 0.2512             | Pass   |
| 6445                 | 6.23                | 0.0042            | 13.15          | 0.0207       | 24.00                | 0.2512             | Pass   |
| 6485                 | 6.17                | 0.0041            | 13.09          | 0.0204       | 24.00                | 0.2512             | Pass   |
| 6525                 | 5.51                | 0.0036            | 13.37          | 0.0217       | 24.00                | 0.2512             | Pass   |
| 6685                 | 5.47                | 0.0035            | 13.33          | 0.0215       | 24.00                | 0.2512             | Pass   |
| 6845                 | 5.37                | 0.0034            | 13.23          | 0.0210       | 24.00                | 0.2512             | Pass   |
| 6885                 | 6.60                | 0.0046            | 13.46          | 0.0222       | 24.00                | 0.2512             | Pass   |
| 6965                 | 7.02                | 0.0050            | 13.88          | 0.0244       | 24.00                | 0.2512             | Pass   |
| 7085                 | 6.19                | 0.0042            | 13.05          | 0.0202       | 24.00                | 0.2512             | Pass   |

|           |                                    |             |          |
|-----------|------------------------------------|-------------|----------|
| Test Mode | IEEE 802.11ax (HE80)_ Main Antenna | Tested Date | 2025/3/6 |
|-----------|------------------------------------|-------------|----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 5985                 | 5.59                | 0.0036            | 13.29          | 0.0213       | 24.00                | 0.2512             | Pass   |
| 6145                 | 5.62                | 0.0036            | 13.32          | 0.0215       | 24.00                | 0.2512             | Pass   |
| 6385                 | 5.75                | 0.0038            | 13.45          | 0.0221       | 24.00                | 0.2512             | Pass   |
| 6465                 | 6.50                | 0.0045            | 13.42          | 0.0220       | 24.00                | 0.2512             | Pass   |
| 6545                 | 5.50                | 0.0035            | 13.36          | 0.0217       | 24.00                | 0.2512             | Pass   |
| 6625                 | 5.45                | 0.0035            | 13.31          | 0.0214       | 24.00                | 0.2512             | Pass   |
| 6705                 | 5.17                | 0.0033            | 13.03          | 0.0201       | 24.00                | 0.2512             | Pass   |
| 6785                 | 5.19                | 0.0033            | 13.05          | 0.0202       | 24.00                | 0.2512             | Pass   |
| 6865                 | 5.58                | 0.0036            | 12.44          | 0.0175       | 24.00                | 0.2512             | Pass   |
| 6945                 | 6.08                | 0.0041            | 12.94          | 0.0197       | 24.00                | 0.2512             | Pass   |
| 7025                 | 6.30                | 0.0043            | 13.16          | 0.0207       | 24.00                | 0.2512             | Pass   |

|           |                                   |             |          |
|-----------|-----------------------------------|-------------|----------|
| Test Mode | IEEE 802.11ax (HE80)_ Aux Antenna | Tested Date | 2025/3/6 |
|-----------|-----------------------------------|-------------|----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 5985                 | 6.26                | 0.0042            | 13.96          | 0.0249       | 24.00                | 0.2512             | Pass   |
| 6145                 | 6.18                | 0.0041            | 13.88          | 0.0244       | 24.00                | 0.2512             | Pass   |
| 6385                 | 6.11                | 0.0041            | 13.81          | 0.0240       | 24.00                | 0.2512             | Pass   |
| 6465                 | 6.14                | 0.0041            | 13.06          | 0.0202       | 24.00                | 0.2512             | Pass   |
| 6545                 | 5.53                | 0.0036            | 13.39          | 0.0218       | 24.00                | 0.2512             | Pass   |
| 6625                 | 6.03                | 0.0040            | 13.89          | 0.0245       | 24.00                | 0.2512             | Pass   |
| 6705                 | 5.65                | 0.0037            | 13.51          | 0.0224       | 24.00                | 0.2512             | Pass   |
| 6785                 | 5.73                | 0.0037            | 13.59          | 0.0229       | 24.00                | 0.2512             | Pass   |
| 6865                 | 7.22                | 0.0053            | 14.08          | 0.0256       | 24.00                | 0.2512             | Pass   |
| 6945                 | 7.70                | 0.0059            | 14.56          | 0.0286       | 24.00                | 0.2512             | Pass   |
| 7025                 | 6.82                | 0.0048            | 13.68          | 0.0233       | 24.00                | 0.2512             | Pass   |

|           |                             |             |          |
|-----------|-----------------------------|-------------|----------|
| Test Mode | IEEE 802.11ax (HE80)_ Total | Tested Date | 2025/3/6 |
|-----------|-----------------------------|-------------|----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 5985                 | 8.95                | 0.0078            | 16.65          | 0.0462       | 24.00                | 0.2512             | Pass   |
| 6145                 | 8.92                | 0.0078            | 16.62          | 0.0459       | 24.00                | 0.2512             | Pass   |
| 6385                 | 8.94                | 0.0078            | 16.64          | 0.0462       | 24.00                | 0.2512             | Pass   |
| 6465                 | 9.33                | 0.0086            | 16.25          | 0.0422       | 24.00                | 0.2512             | Pass   |
| 6545                 | 8.53                | 0.0071            | 16.39          | 0.0435       | 24.00                | 0.2512             | Pass   |
| 6625                 | 8.76                | 0.0075            | 16.62          | 0.0459       | 24.00                | 0.2512             | Pass   |
| 6705                 | 8.43                | 0.0070            | 16.29          | 0.0425       | 24.00                | 0.2512             | Pass   |
| 6785                 | 8.48                | 0.0070            | 16.34          | 0.0430       | 24.00                | 0.2512             | Pass   |
| 6865                 | 9.49                | 0.0089            | 16.35          | 0.0431       | 24.00                | 0.2512             | Pass   |
| 6945                 | 9.98                | 0.0099            | 16.84          | 0.0483       | 24.00                | 0.2512             | Pass   |
| 7025                 | 9.58                | 0.0091            | 16.44          | 0.0440       | 24.00                | 0.2512             | Pass   |

|           |                                     |             |          |
|-----------|-------------------------------------|-------------|----------|
| Test Mode | IEEE 802.11ax (HE160)_ Main Antenna | Tested Date | 2025/3/6 |
|-----------|-------------------------------------|-------------|----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 6025                 | 8.23                | 0.0067            | 15.93          | 0.0392       | 24.00                | 0.2512             | Pass   |
| 6345                 | 8.05                | 0.0064            | 15.75          | 0.0376       | 24.00                | 0.2512             | Pass   |
| 6505                 | 9.23                | 0.0084            | 16.15          | 0.0412       | 24.00                | 0.2512             | Pass   |
| 6665                 | 8.18                | 0.0066            | 16.04          | 0.0402       | 24.00                | 0.2512             | Pass   |
| 6985                 | 9.27                | 0.0085            | 16.13          | 0.0410       | 24.00                | 0.2512             | Pass   |

|           |                                    |             |          |
|-----------|------------------------------------|-------------|----------|
| Test Mode | IEEE 802.11ax (HE160)_ Aux Antenna | Tested Date | 2025/3/6 |
|-----------|------------------------------------|-------------|----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 6025                 | 8.77                | 0.0075            | 16.47          | 0.0444       | 24.00                | 0.2512             | Pass   |
| 6345                 | 8.31                | 0.0068            | 16.01          | 0.0399       | 24.00                | 0.2512             | Pass   |
| 6505                 | 9.16                | 0.0082            | 16.08          | 0.0406       | 24.00                | 0.2512             | Pass   |
| 6665                 | 8.43                | 0.0070            | 16.29          | 0.0426       | 24.00                | 0.2512             | Pass   |
| 6985                 | 9.80                | 0.0095            | 16.66          | 0.0463       | 24.00                | 0.2512             | Pass   |

|           |                              |             |          |
|-----------|------------------------------|-------------|----------|
| Test Mode | IEEE 802.11ax (HE160)_ Total | Tested Date | 2025/3/6 |
|-----------|------------------------------|-------------|----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 6025                 | 11.52               | 0.0142            | 19.22          | 0.0835       | 24.00                | 0.2512             | Pass   |
| 6345                 | 11.19               | 0.0132            | 18.89          | 0.0775       | 24.00                | 0.2512             | Pass   |
| 6505                 | 12.21               | 0.0166            | 19.13          | 0.0818       | 24.00                | 0.2512             | Pass   |
| 6665                 | 11.32               | 0.0135            | 19.18          | 0.0827       | 24.00                | 0.2512             | Pass   |
| 6985                 | 12.55               | 0.0180            | 19.41          | 0.0874       | 24.00                | 0.2512             | Pass   |

**For RU Configuration:**

|           |                            |             |           |
|-----------|----------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE20)_ Main | Tested Date | 2025/3/10 |
|-----------|----------------------------|-------------|-----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 5955_full            | -1.73               | 0.0007            | 5.97           | 0.0040       | 24.00                | 0.2512             | Pass   |
| 26_Tones             | -14.29              | 0.0000            | -6.59          | 0.0002       | 24.00                | 0.2512             | Pass   |
| 52_Tones             | -9.83               | 0.0001            | -2.13          | 0.0006       | 24.00                | 0.2512             | Pass   |
| 106_Tones            | -5.46               | 0.0003            | 2.24           | 0.0017       | 24.00                | 0.2512             | Pass   |
| 6435_full            | 0.79                | 0.0012            | 7.71           | 0.0059       | 24.00                | 0.2512             | Pass   |
| 26_Tones             | -11.78              | 0.0001            | -4.86          | 0.0003       | 24.00                | 0.2512             | Pass   |
| 52_Tones             | -7.31               | 0.0002            | -0.39          | 0.0009       | 24.00                | 0.2512             | Pass   |
| 106_Tones            | -3.60               | 0.0004            | 3.32           | 0.0021       | 24.00                | 0.2512             | Pass   |
| 6535_full            | -2.05               | 0.0006            | 5.81           | 0.0038       | 24.00                | 0.2512             | Pass   |
| 26_Tones             | -15.94              | 0.0000            | -8.08          | 0.0002       | 24.00                | 0.2512             | Pass   |
| 52_Tones             | -10.54              | 0.0001            | -2.68          | 0.0005       | 24.00                | 0.2512             | Pass   |
| 106_Tones            | -6.31               | 0.0002            | 1.55           | 0.0014       | 24.00                | 0.2512             | Pass   |
| 6875_full            | -3.07               | 0.0005            | 3.79           | 0.0024       | 24.00                | 0.2512             | Pass   |
| 26_Tones             | -15.96              | 0.0000            | -9.10          | 0.0001       | 24.00                | 0.2512             | Pass   |
| 52_Tones             | -12.68              | 0.0001            | -5.82          | 0.0003       | 24.00                | 0.2512             | Pass   |
| 106_Tones            | -8.46               | 0.0001            | -1.60          | 0.0007       | 24.00                | 0.2512             | Pass   |

|           |                           |             |           |
|-----------|---------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE20)_ Aux | Tested Date | 2025/3/10 |
|-----------|---------------------------|-------------|-----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 5955_full            | -0.68               | 0.0009            | 7.02           | 0.0050       | 24.00                | 0.2512             | Pass   |
| 26_Tones             | -13.32              | 0.0000            | -5.62          | 0.0003       | 24.00                | 0.2512             | Pass   |
| 52_Tones             | -8.53               | 0.0001            | -0.83          | 0.0008       | 24.00                | 0.2512             | Pass   |
| 106_Tones            | -4.86               | 0.0003            | 2.84           | 0.0019       | 24.00                | 0.2512             | Pass   |
| 6435_full            | -0.06               | 0.0010            | 6.86           | 0.0049       | 24.00                | 0.2512             | Pass   |
| 26_Tones             | -11.64              | 0.0001            | -4.72          | 0.0003       | 24.00                | 0.2512             | Pass   |
| 52_Tones             | -7.14               | 0.0002            | -0.22          | 0.0010       | 24.00                | 0.2512             | Pass   |
| 106_Tones            | -3.56               | 0.0004            | 3.36           | 0.0022       | 24.00                | 0.2512             | Pass   |
| 6535_full            | -2.36               | 0.0006            | 5.50           | 0.0035       | 24.00                | 0.2512             | Pass   |
| 26_Tones             | -17.58              | 0.0000            | -9.72          | 0.0001       | 24.00                | 0.2512             | Pass   |
| 52_Tones             | -11.41              | 0.0001            | -3.55          | 0.0004       | 24.00                | 0.2512             | Pass   |
| 106_Tones            | -6.80               | 0.0002            | 1.06           | 0.0013       | 24.00                | 0.2512             | Pass   |
| 6875_full            | -1.78               | 0.0007            | 5.08           | 0.0032       | 24.00                | 0.2512             | Pass   |
| 26_Tones             | -13.45              | 0.0000            | -6.59          | 0.0002       | 24.00                | 0.2512             | Pass   |
| 52_Tones             | -10.11              | 0.0001            | -3.25          | 0.0005       | 24.00                | 0.2512             | Pass   |
| 106_Tones            | -6.23               | 0.0002            | 0.63           | 0.0012       | 24.00                | 0.2512             | Pass   |

|           |                            |             |           |
|-----------|----------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE20)_Total | Tested Date | 2025/3/10 |
|-----------|----------------------------|-------------|-----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 5955_full            | 1.84                | 0.0015            | 9.54           | 0.0090       | 24.00                | 0.2512             | Pass   |
| 26_Tones             | -10.77              | 0.0001            | -3.07          | 0.0005       | 24.00                | 0.2512             | Pass   |
| 52_Tones             | -6.12               | 0.0002            | 1.58           | 0.0014       | 24.00                | 0.2512             | Pass   |
| 106_Tones            | -2.14               | 0.0006            | 5.56           | 0.0036       | 24.00                | 0.2512             | Pass   |
| 6435_full            | 3.40                | 0.0022            | 10.32          | 0.0108       | 24.00                | 0.2512             | Pass   |
| 26_Tones             | -8.70               | 0.0001            | -1.78          | 0.0007       | 24.00                | 0.2512             | Pass   |
| 52_Tones             | -4.21               | 0.0004            | 2.71           | 0.0019       | 24.00                | 0.2512             | Pass   |
| 106_Tones            | -0.57               | 0.0009            | 6.35           | 0.0043       | 24.00                | 0.2512             | Pass   |
| 6535_full            | 0.81                | 0.0012            | 8.67           | 0.0074       | 24.00                | 0.2512             | Pass   |
| 26_Tones             | -13.67              | 0.0000            | -5.81          | 0.0003       | 24.00                | 0.2512             | Pass   |
| 52_Tones             | -7.94               | 0.0002            | -0.08          | 0.0010       | 24.00                | 0.2512             | Pass   |
| 106_Tones            | -3.54               | 0.0004            | 4.32           | 0.0027       | 24.00                | 0.2512             | Pass   |
| 6875_full            | 0.63                | 0.0012            | 7.49           | 0.0056       | 24.00                | 0.2512             | Pass   |
| 26_Tones             | -11.52              | 0.0001            | -4.66          | 0.0003       | 24.00                | 0.2512             | Pass   |
| 52_Tones             | -8.20               | 0.0002            | -1.34          | 0.0007       | 24.00                | 0.2512             | Pass   |
| 106_Tones            | -4.19               | 0.0004            | 2.67           | 0.0018       | 24.00                | 0.2512             | Pass   |

|           |                            |             |           |
|-----------|----------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE40)_ Main | Tested Date | 2025/3/10 |
|-----------|----------------------------|-------------|-----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 5965_full            | 1.75                | 0.0015            | 9.45           | 0.0088       | 24.00                | 0.2512             | Pass   |
| 242_Tones            | -1.62               | 0.0007            | 6.08           | 0.0041       | 24.00                | 0.2512             | Pass   |
| 6445_full            | 3.09                | 0.0020            | 10.01          | 0.0100       | 24.00                | 0.2512             | Pass   |
| 242_Tones            | -0.65               | 0.0009            | 6.27           | 0.0042       | 24.00                | 0.2512             | Pass   |
| 6525_full            | 1.98                | 0.0016            | 9.84           | 0.0096       | 24.00                | 0.2512             | Pass   |
| 242_Tones            | -1.55               | 0.0007            | 6.31           | 0.0043       | 24.00                | 0.2512             | Pass   |
| 6885_full            | 2.45                | 0.0018            | 9.31           | 0.0085       | 24.00                | 0.2512             | Pass   |
| 242_Tones            | -2.61               | 0.0005            | 4.25           | 0.0027       | 24.00                | 0.2512             | Pass   |

|           |                           |             |           |
|-----------|---------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE40)_ Aux | Tested Date | 2025/3/10 |
|-----------|---------------------------|-------------|-----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 5965_full            | 2.73                | 0.0019            | 10.43          | 0.0110       | 24.00                | 0.2512             | Pass   |
| 242_Tones            | -0.79               | 0.0008            | 6.91           | 0.0049       | 24.00                | 0.2512             | Pass   |
| 6445_full            | 3.29                | 0.0021            | 10.21          | 0.0105       | 24.00                | 0.2512             | Pass   |
| 242_Tones            | -1.29               | 0.0007            | 5.63           | 0.0037       | 24.00                | 0.2512             | Pass   |
| 6525_full            | 2.51                | 0.0018            | 10.37          | 0.0109       | 24.00                | 0.2512             | Pass   |
| 242_Tones            | -1.83               | 0.0007            | 6.03           | 0.0040       | 24.00                | 0.2512             | Pass   |
| 6885_full            | 4.27                | 0.0027            | 11.13          | 0.0130       | 24.00                | 0.2512             | Pass   |
| 242_Tones            | -1.06               | 0.0008            | 5.80           | 0.0038       | 24.00                | 0.2512             | Pass   |

|           |                             |             |           |
|-----------|-----------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE40)_ Total | Tested Date | 2025/3/10 |
|-----------|-----------------------------|-------------|-----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 5965_full            | 5.28                | 0.0034            | 12.98          | 0.0199       | 24.00                | 0.2512             | Pass   |
| 242_Tones            | 1.83                | 0.0015            | 9.53           | 0.0090       | 24.00                | 0.2512             | Pass   |
| 6445_full            | 6.20                | 0.0042            | 13.12          | 0.0205       | 24.00                | 0.2512             | Pass   |
| 242_Tones            | 2.05                | 0.0016            | 8.97           | 0.0079       | 24.00                | 0.2512             | Pass   |
| 6525_full            | 5.26                | 0.0034            | 13.12          | 0.0205       | 24.00                | 0.2512             | Pass   |
| 242_Tones            | 1.32                | 0.0014            | 9.18           | 0.0083       | 24.00                | 0.2512             | Pass   |
| 6885_full            | 6.46                | 0.0044            | 13.32          | 0.0215       | 24.00                | 0.2512             | Pass   |
| 242_Tones            | 1.24                | 0.0013            | 8.10           | 0.0065       | 24.00                | 0.2512             | Pass   |

|           |                            |             |           |
|-----------|----------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE80)_ Main | Tested Date | 2025/3/10 |
|-----------|----------------------------|-------------|-----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 5985_full            | 5.34                | 0.0034            | 13.04          | 0.0201       | 24.00                | 0.2512             | Pass   |
| 484_Tones            | 1.80                | 0.0015            | 9.50           | 0.0089       | 24.00                | 0.2512             | Pass   |
| 6465_full            | 6.26                | 0.0042            | 13.18          | 0.0208       | 24.00                | 0.2512             | Pass   |
| 484_Tones            | 2.66                | 0.0018            | 9.58           | 0.0091       | 24.00                | 0.2512             | Pass   |
| 6545_full            | 5.06                | 0.0032            | 12.92          | 0.0196       | 24.00                | 0.2512             | Pass   |
| 484_Tones            | 1.55                | 0.0014            | 9.41           | 0.0087       | 24.00                | 0.2512             | Pass   |
| 6865_full            | 5.96                | 0.0039            | 12.82          | 0.0191       | 24.00                | 0.2512             | Pass   |
| 484_Tones            | 2.27                | 0.0017            | 9.13           | 0.0082       | 24.00                | 0.2512             | Pass   |

|           |                           |             |           |
|-----------|---------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE80)_ Aux | Tested Date | 2025/3/10 |
|-----------|---------------------------|-------------|-----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 5985_full            | 6.08                | 0.0041            | 13.78          | 0.0239       | 24.00                | 0.2512             | Pass   |
| 484_Tones            | 2.62                | 0.0018            | 10.32          | 0.0108       | 24.00                | 0.2512             | Pass   |
| 6465_full            | 6.19                | 0.0042            | 13.11          | 0.0205       | 24.00                | 0.2512             | Pass   |
| 484_Tones            | 2.91                | 0.0020            | 9.83           | 0.0096       | 24.00                | 0.2512             | Pass   |
| 6545_full            | 5.52                | 0.0036            | 13.38          | 0.0218       | 24.00                | 0.2512             | Pass   |
| 484_Tones            | 1.91                | 0.0016            | 9.77           | 0.0095       | 24.00                | 0.2512             | Pass   |
| 6865_full            | 7.68                | 0.0059            | 14.54          | 0.0284       | 24.00                | 0.2512             | Pass   |
| 484_Tones            | 4.01                | 0.0025            | 10.87          | 0.0122       | 24.00                | 0.2512             | Pass   |

|           |                             |             |           |
|-----------|-----------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE80)_ Total | Tested Date | 2025/3/10 |
|-----------|-----------------------------|-------------|-----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 5985_full            | 8.74                | 0.0075            | 16.44          | 0.0440       | 24.00                | 0.2512             | Pass   |
| 484_Tones            | 5.24                | 0.0033            | 12.94          | 0.0197       | 24.00                | 0.2512             | Pass   |
| 6465_full            | 9.24                | 0.0084            | 16.16          | 0.0413       | 24.00                | 0.2512             | Pass   |
| 484_Tones            | 5.80                | 0.0038            | 12.72          | 0.0187       | 24.00                | 0.2512             | Pass   |
| 6545_full            | 8.31                | 0.0068            | 16.17          | 0.0414       | 24.00                | 0.2512             | Pass   |
| 484_Tones            | 4.74                | 0.0030            | 12.60          | 0.0182       | 24.00                | 0.2512             | Pass   |
| 6865_full            | 9.91                | 0.0098            | 16.77          | 0.0476       | 24.00                | 0.2512             | Pass   |
| 484_Tones            | 6.24                | 0.0042            | 13.10          | 0.0204       | 24.00                | 0.2512             | Pass   |

|           |                             |             |           |
|-----------|-----------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE160)_ Main | Tested Date | 2025/3/10 |
|-----------|-----------------------------|-------------|-----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 6025_full            | 7.95                | 0.0062            | 15.65          | 0.0367       | 24.00                | 0.2512             | Pass   |
| 996_Tones            | 5.21                | 0.0033            | 12.91          | 0.0195       | 24.00                | 0.2512             | Pass   |
| 6505_full            | 8.93                | 0.0078            | 15.85          | 0.0385       | 24.00                | 0.2512             | Pass   |
| 996_Tones            | 6.19                | 0.0042            | 13.11          | 0.0205       | 24.00                | 0.2512             | Pass   |
| 6665_full            | 8.48                | 0.0070            | 16.34          | 0.0431       | 24.00                | 0.2512             | Pass   |
| 996_Tones            | 5.16                | 0.0033            | 13.02          | 0.0200       | 24.00                | 0.2512             | Pass   |
| 6985_full            | 8.99                | 0.0079            | 15.85          | 0.0385       | 24.00                | 0.2512             | Pass   |
| 996_Tones            | 6.01                | 0.0040            | 12.87          | 0.0194       | 24.00                | 0.2512             | Pass   |

|           |                            |             |           |
|-----------|----------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE160)_ Aux | Tested Date | 2025/3/10 |
|-----------|----------------------------|-------------|-----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 6025_full            | 8.64                | 0.0073            | 16.34          | 0.0431       | 24.00                | 0.2512             | Pass   |
| 996_Tones            | 5.76                | 0.0038            | 13.46          | 0.0222       | 24.00                | 0.2512             | Pass   |
| 6505_full            | 9.10                | 0.0081            | 16.02          | 0.0400       | 24.00                | 0.2512             | Pass   |
| 996_Tones            | 6.49                | 0.0045            | 13.41          | 0.0219       | 24.00                | 0.2512             | Pass   |
| 6665_full            | 8.95                | 0.0079            | 16.81          | 0.0480       | 24.00                | 0.2512             | Pass   |
| 996_Tones            | 6.02                | 0.0040            | 13.88          | 0.0244       | 24.00                | 0.2512             | Pass   |
| 6985_full            | 9.72                | 0.0094            | 16.58          | 0.0455       | 24.00                | 0.2512             | Pass   |
| 996_Tones            | 7.02                | 0.0050            | 13.88          | 0.0244       | 24.00                | 0.2512             | Pass   |

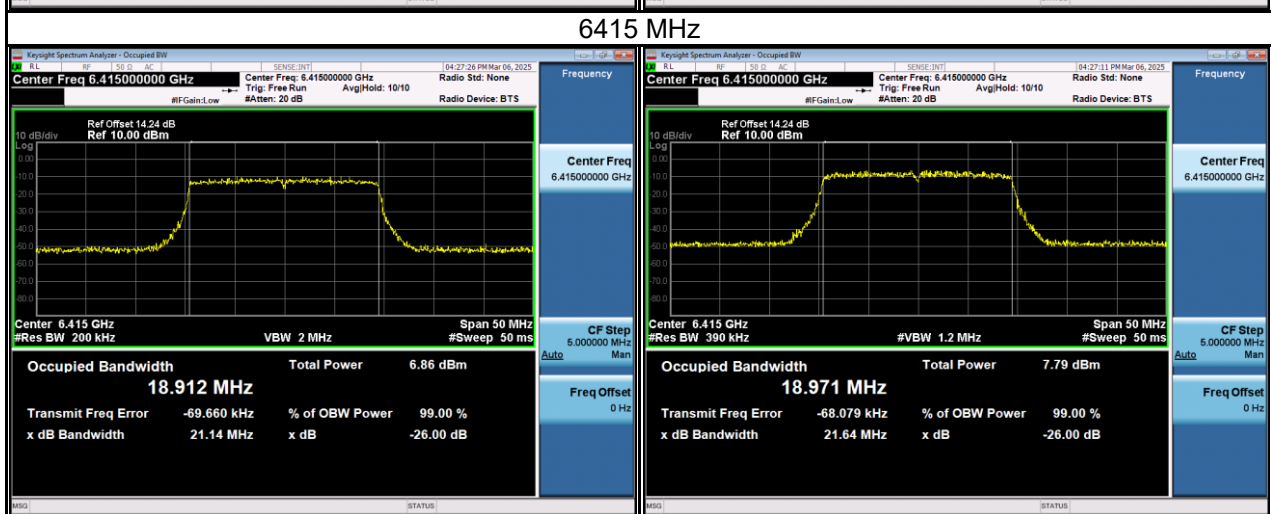
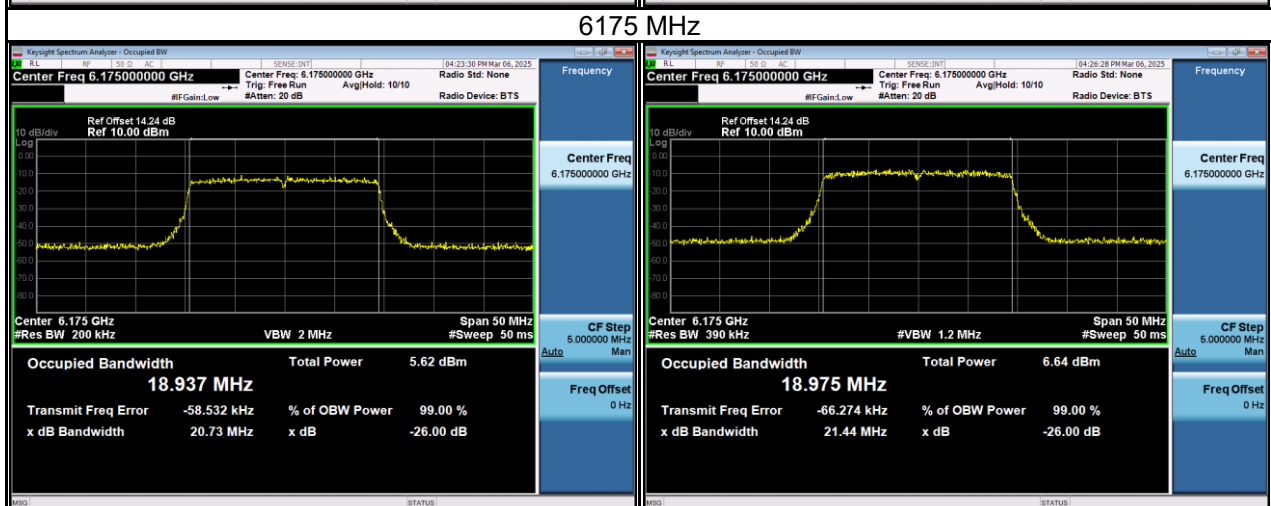
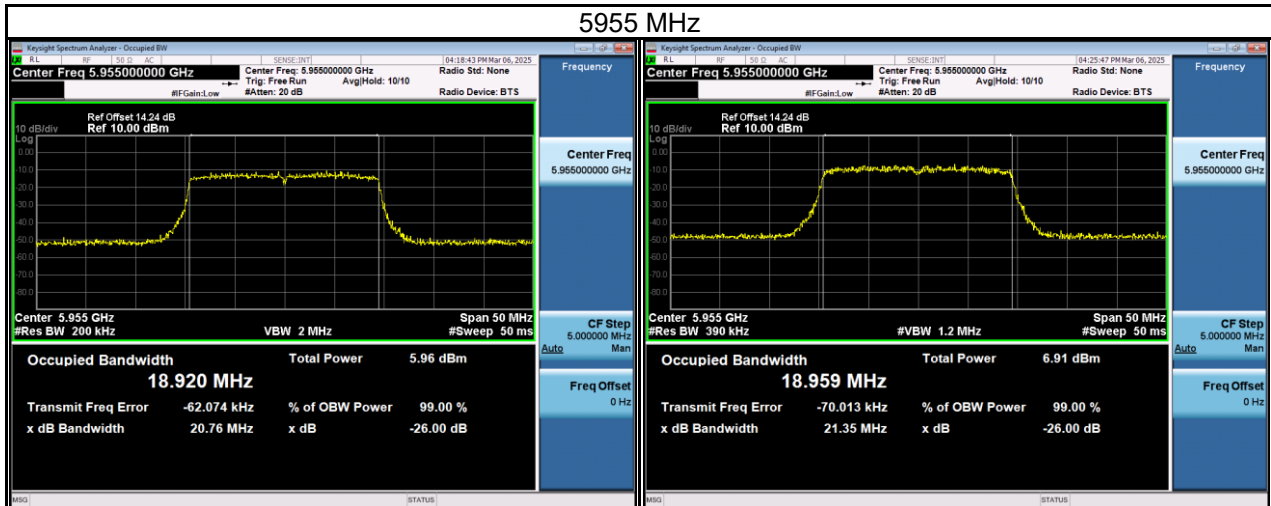
|           |                              |             |           |
|-----------|------------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE160)_ Total | Tested Date | 2025/3/10 |
|-----------|------------------------------|-------------|-----------|

| Test Frequency (MHz) | Average Power (dBm) | Average Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|---------------------|-------------------|----------------|--------------|----------------------|--------------------|--------|
| 6025_full            | 11.32               | 0.0135            | 19.02          | 0.0798       | 24.00                | 0.2512             | Pass   |
| 996_Tones            | 8.50                | 0.0071            | 16.20          | 0.0417       | 24.00                | 0.2512             | Pass   |
| 6505_full            | 12.03               | 0.0159            | 18.95          | 0.0785       | 24.00                | 0.2512             | Pass   |
| 996_Tones            | 9.35                | 0.0086            | 16.27          | 0.0424       | 24.00                | 0.2512             | Pass   |
| 6665_full            | 11.73               | 0.0149            | 19.59          | 0.0910       | 24.00                | 0.2512             | Pass   |
| 996_Tones            | 8.62                | 0.0073            | 16.48          | 0.0445       | 24.00                | 0.2512             | Pass   |
| 6985_full            | 12.38               | 0.0173            | 19.24          | 0.0840       | 24.00                | 0.2512             | Pass   |
| 996_Tones            | 9.55                | 0.0090            | 16.41          | 0.0438       | 24.00                | 0.2512             | Pass   |

## **APPENDIX B MAXIMUM TRANSMITTER CHANNEL BANDWIDTH**

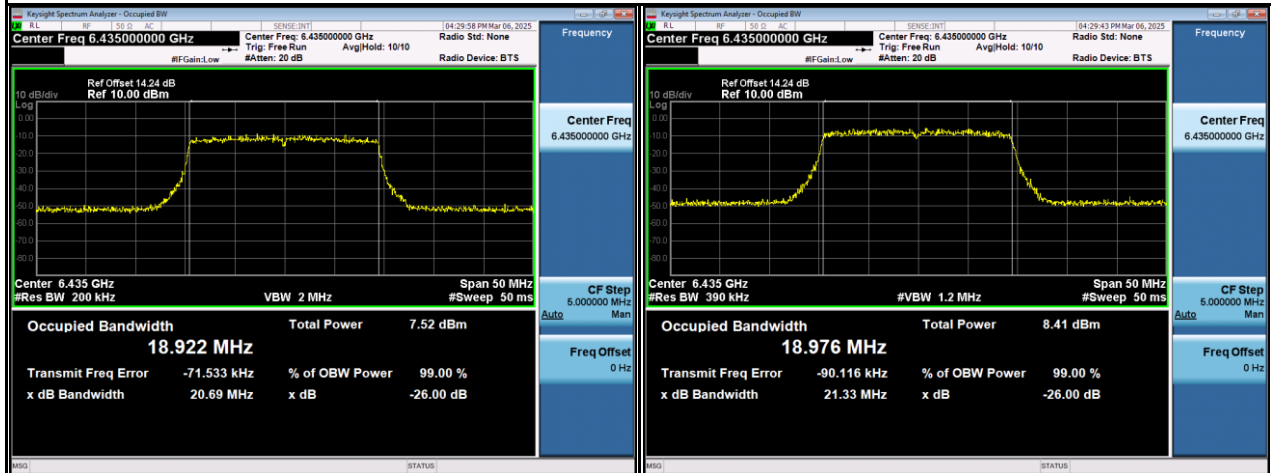
|           |                                    |
|-----------|------------------------------------|
| Test Mode | IEEE 802.11ax (HE20)_ Main Antenna |
|-----------|------------------------------------|

| Test Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | Limit (MHz) | Result |
|----------------------|-----------------------|-------------------------------|-------------|--------|
| 5955                 | 20.76                 | 18.96                         | 20          | Pass   |
| 6175                 | 20.73                 | 18.98                         | 20          | Pass   |
| 6415                 | 21.14                 | 18.97                         | 20          | Pass   |

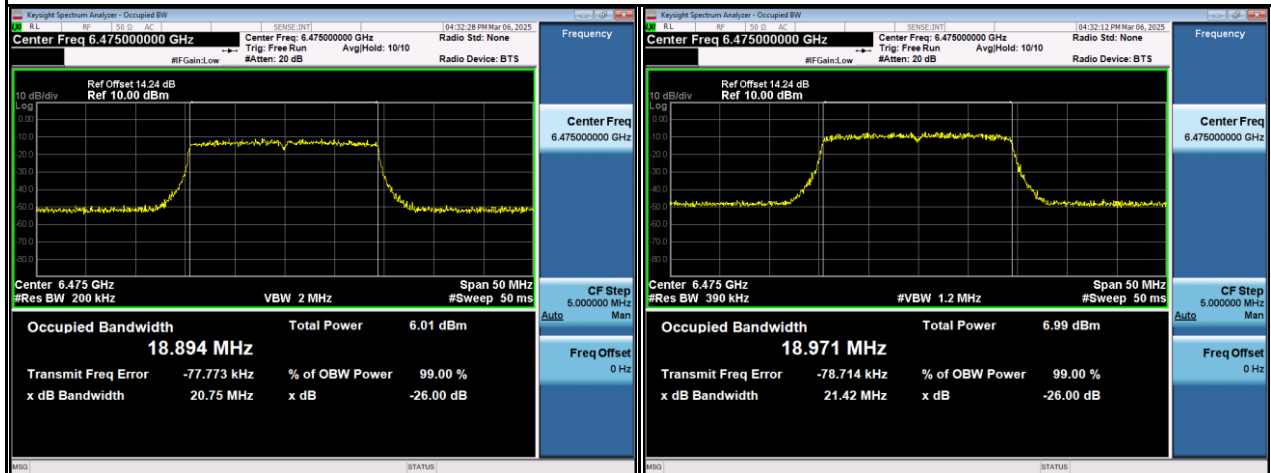


| Test Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | Limit (MHz) | Result |
|----------------------|-----------------------|-------------------------------|-------------|--------|
| 6435                 | 20.69                 | 18.98                         | 20          | Pass   |
| 6475                 | 20.75                 | 18.97                         | 20          | Pass   |
| 6515                 | 20.85                 | 18.97                         | 20          | Pass   |

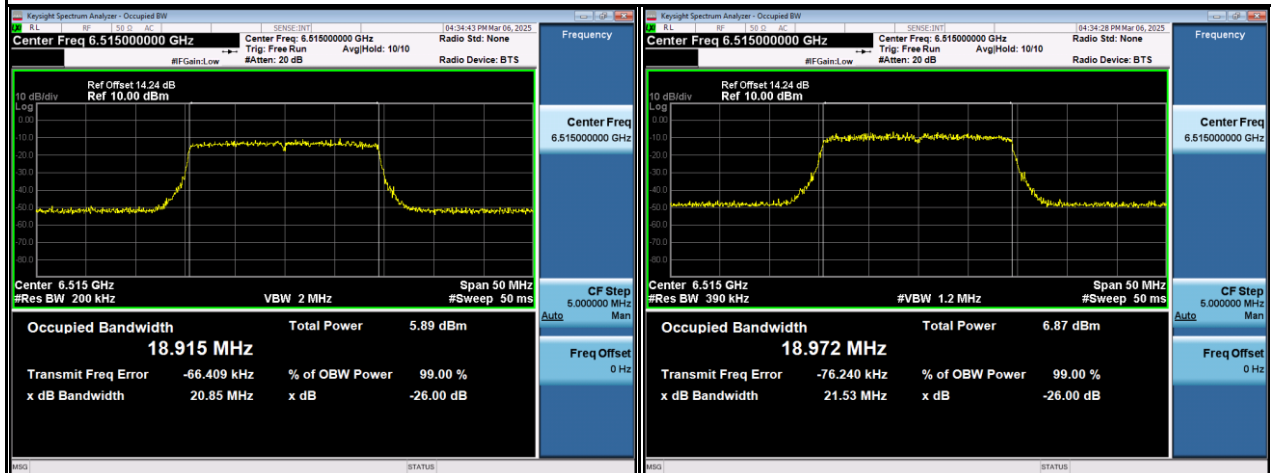
## 6435 MHz



## 6475 MHz

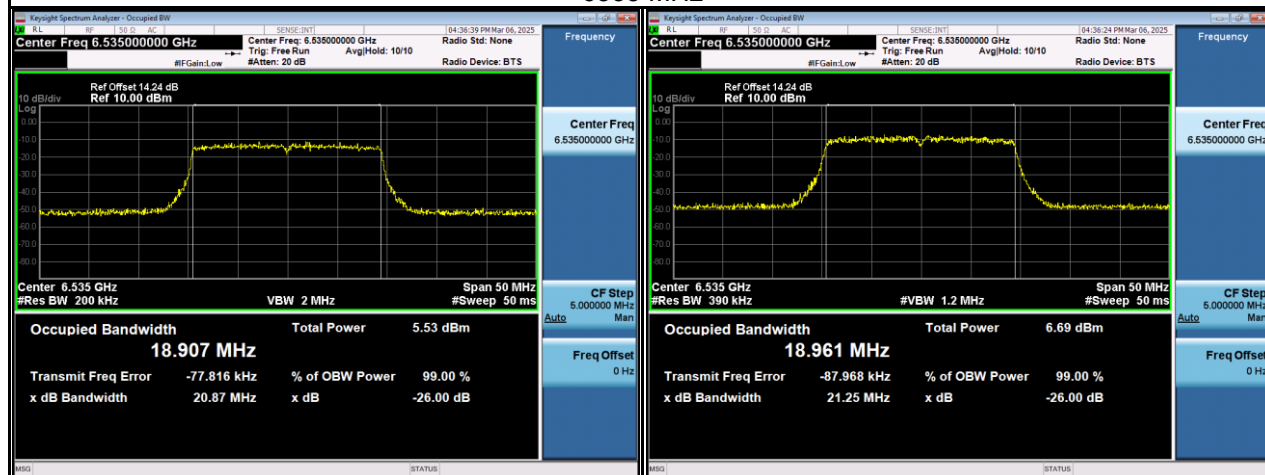


## 6515 MHz

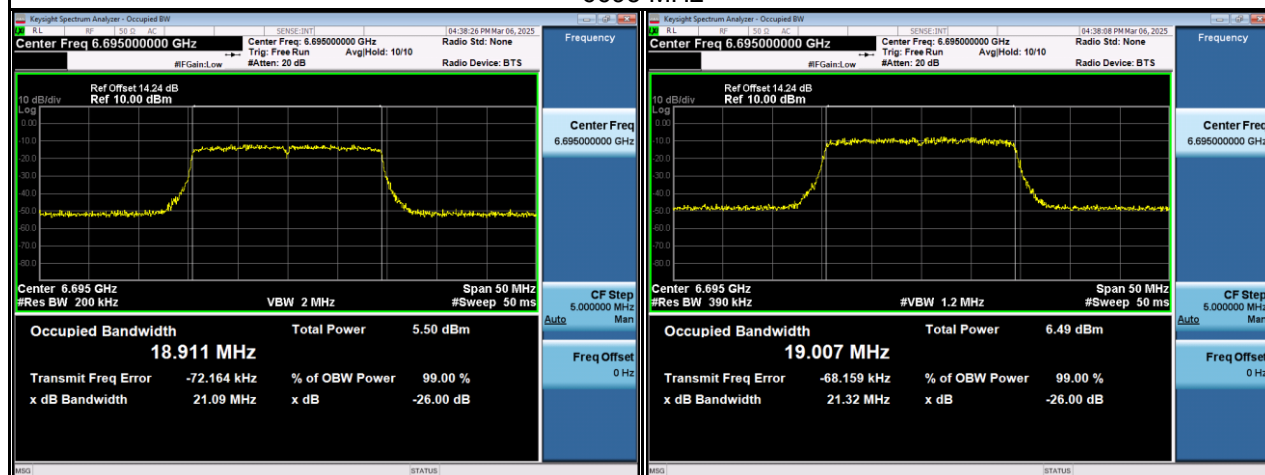


| Test Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | Limit (MHz) | Result |
|----------------------|-----------------------|-------------------------------|-------------|--------|
| 6535                 | 20.87                 | 18.96                         | 20          | Pass   |
| 6695                 | 21.09                 | 19.01                         | 20          | Pass   |
| 6855                 | 21.18                 | 18.97                         | 20          | Pass   |

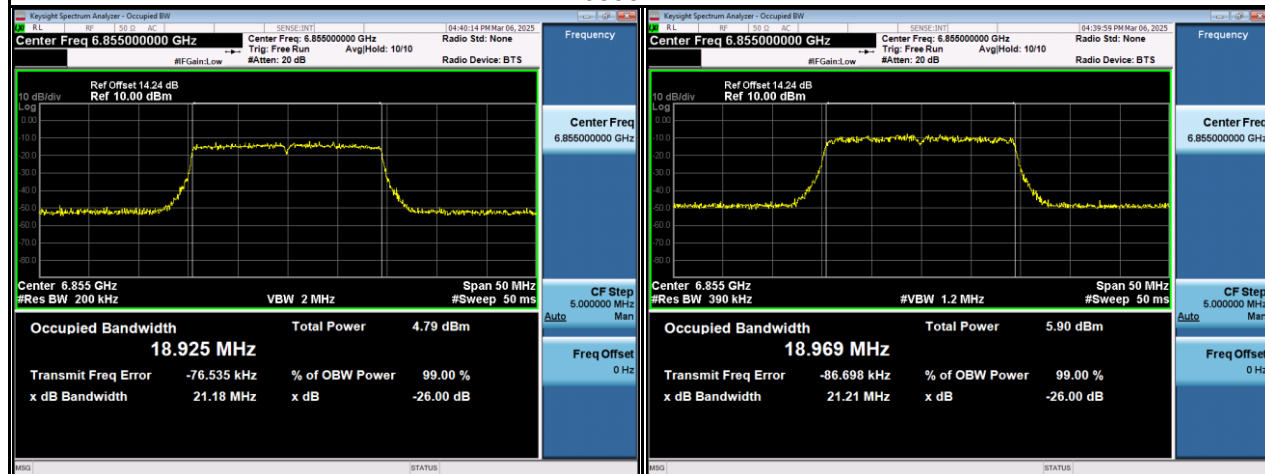
## 6535 MHz



## 6695 MHz

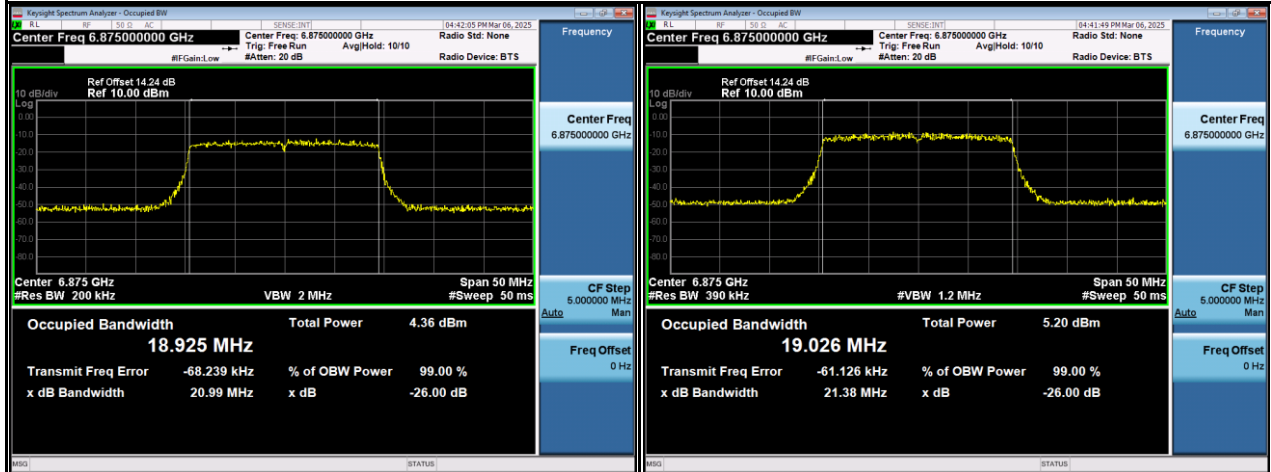


## 6855 MHz

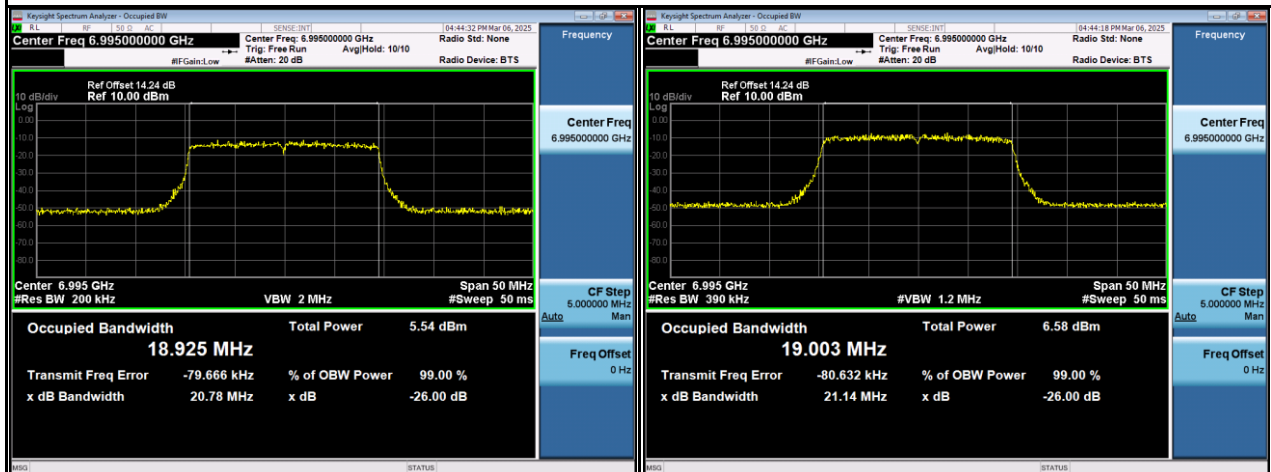


| Test Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | Limit (MHz) | Result |
|----------------------|-----------------------|-------------------------------|-------------|--------|
| 6875                 | 20.99                 | 19.03                         | 20          | Pass   |
| 6995                 | 20.78                 | 19.00                         | 20          | Pass   |
| 7115                 | 20.77                 | 18.98                         | 20          | Pass   |

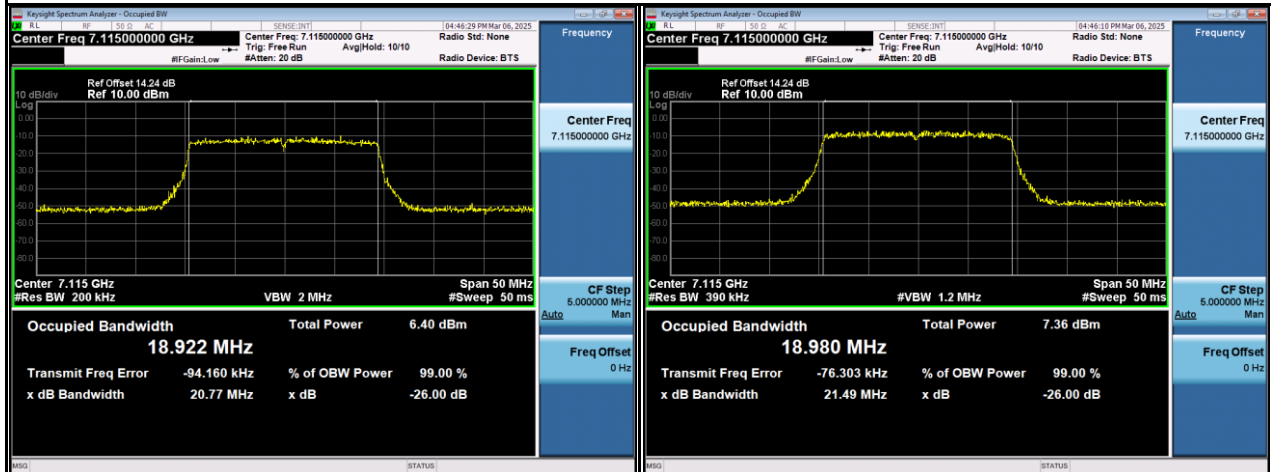
## 6875 MHz



## 6995 MHz

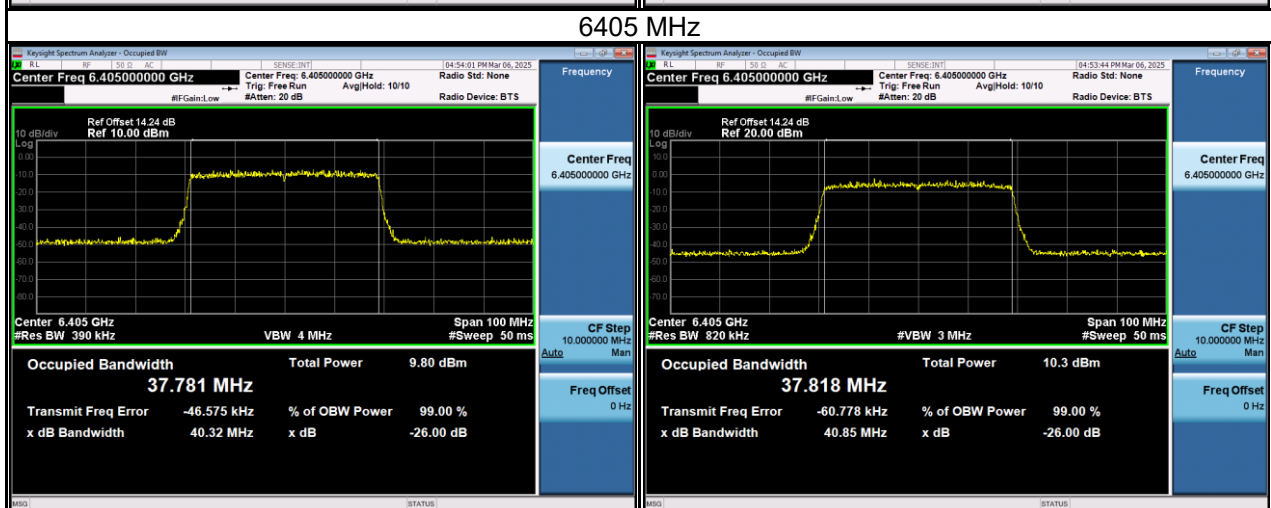
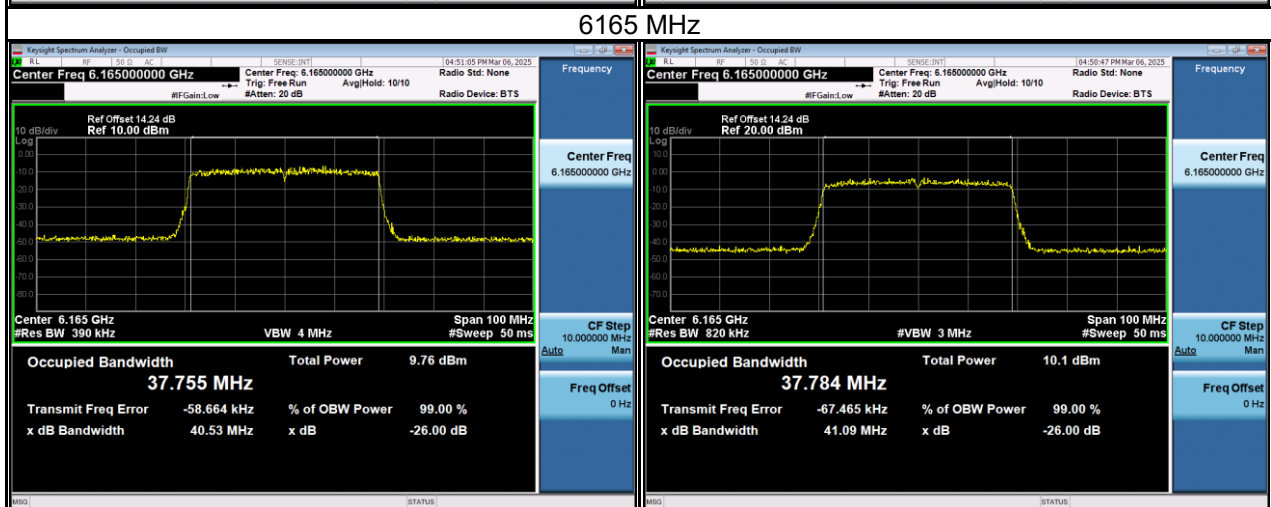
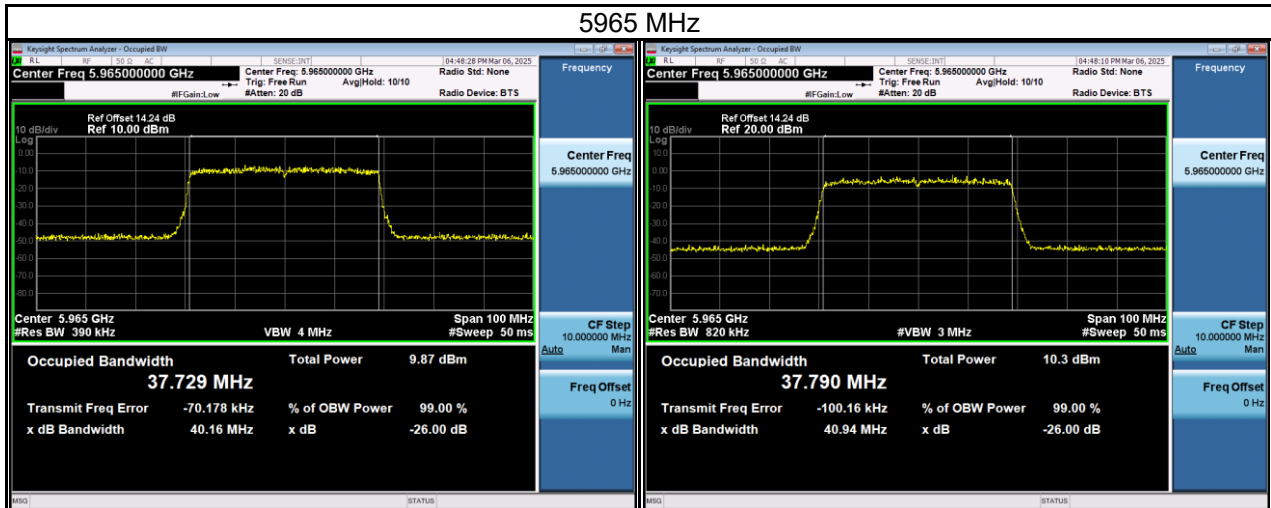


## 7115 MHz

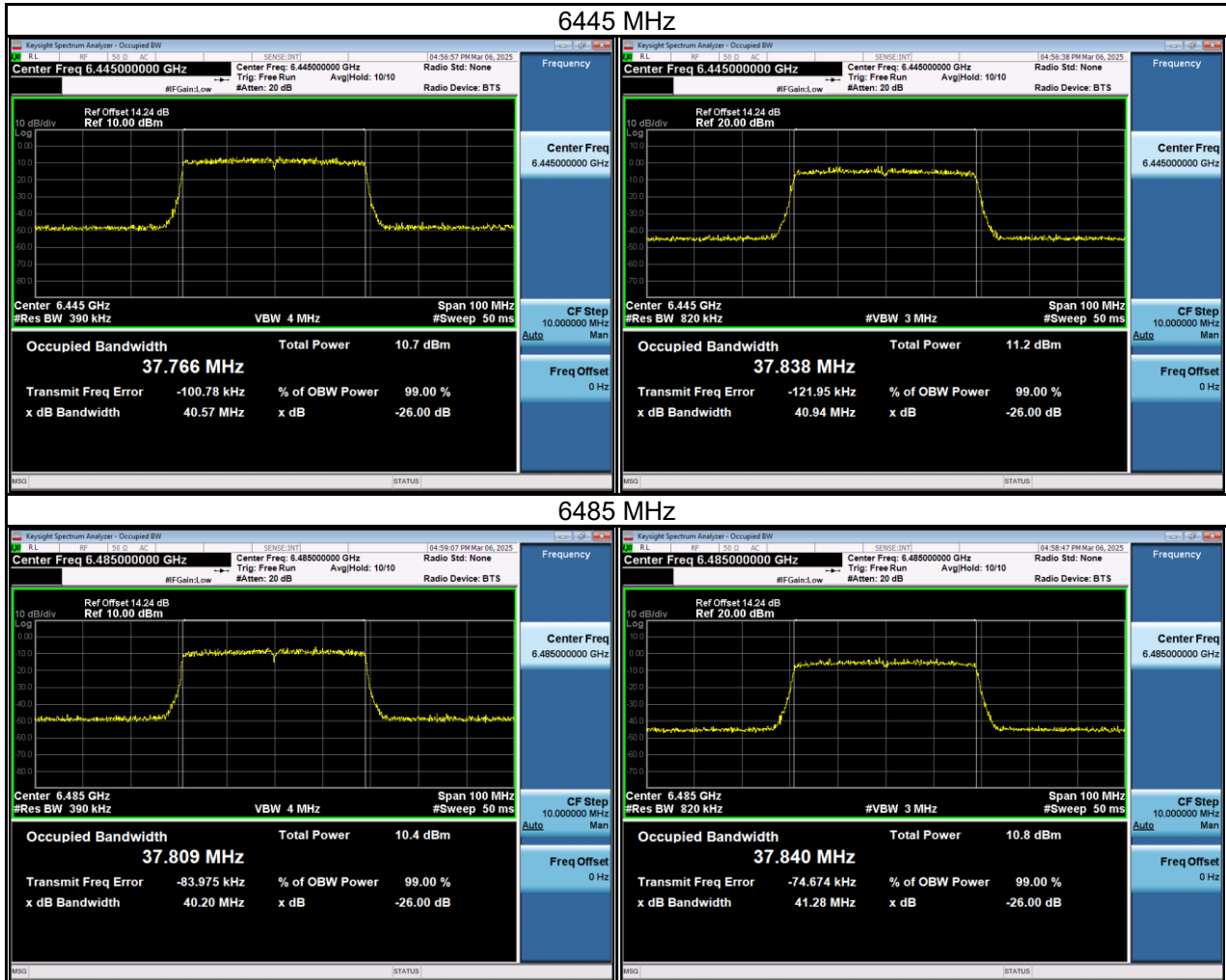


|           |                                    |
|-----------|------------------------------------|
| Test Mode | IEEE 802.11ax (HE40)_ Main Antenna |
|-----------|------------------------------------|

| Test Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | Limit (MHz) | Result |
|----------------------|-----------------------|-------------------------------|-------------|--------|
| 5965                 | 40.16                 | 37.79                         | 40          | Pass   |
| 6165                 | 40.53                 | 37.78                         | 40          | Pass   |
| 6405                 | 40.32                 | 37.82                         | 40          | Pass   |

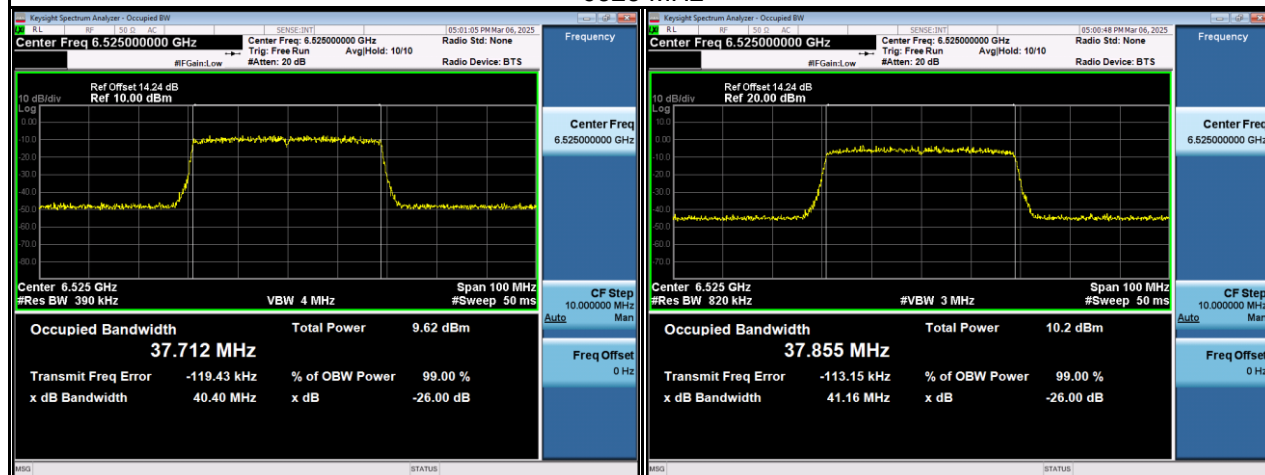


| Test Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | Limit (MHz) | Result |
|----------------------|-----------------------|-------------------------------|-------------|--------|
| 6445                 | 40.57                 | 37.84                         | 40          | Pass   |
| 6485                 | 40.20                 | 37.84                         | 40          | Pass   |



| Test Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | Limit (MHz) | Result |
|----------------------|-----------------------|-------------------------------|-------------|--------|
| 6525                 | 40.40                 | 37.86                         | 40          | Pass   |
| 6685                 | 40.42                 | 37.77                         | 40          | Pass   |
| 6845                 | 40.43                 | 37.85                         | 40          | Pass   |

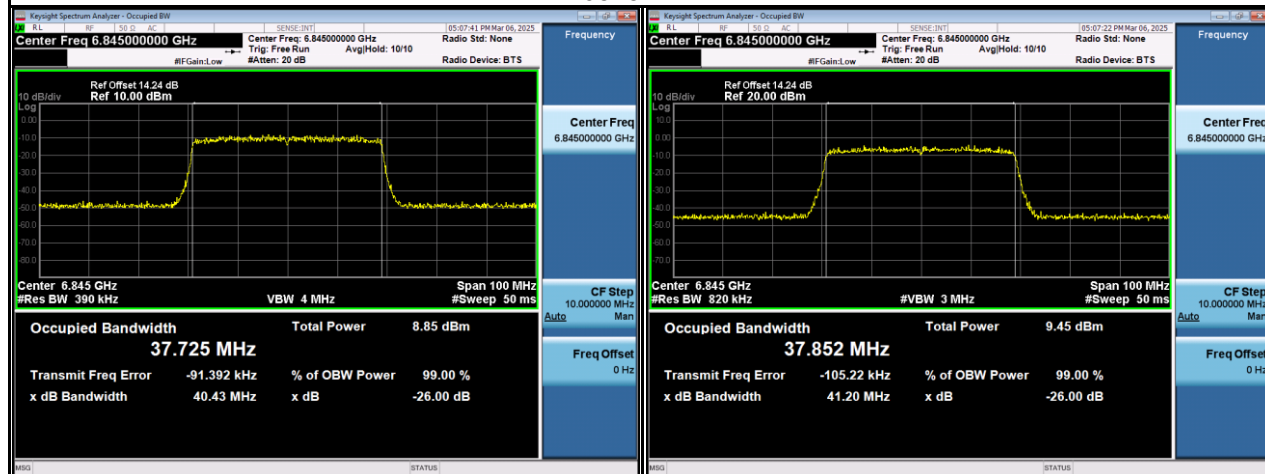
## 6525 MHz



## 6685 MHz

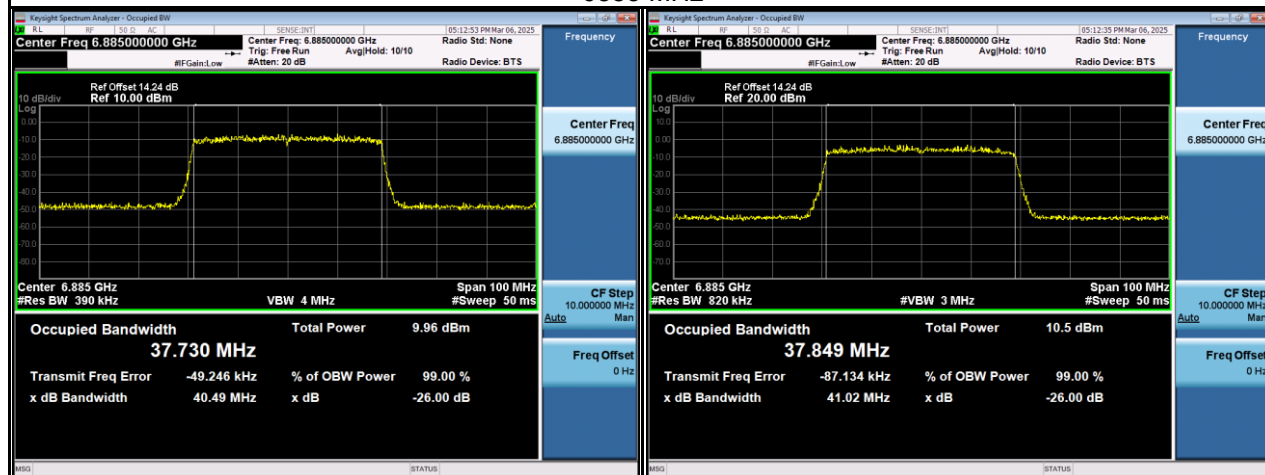


## 6845 MHz

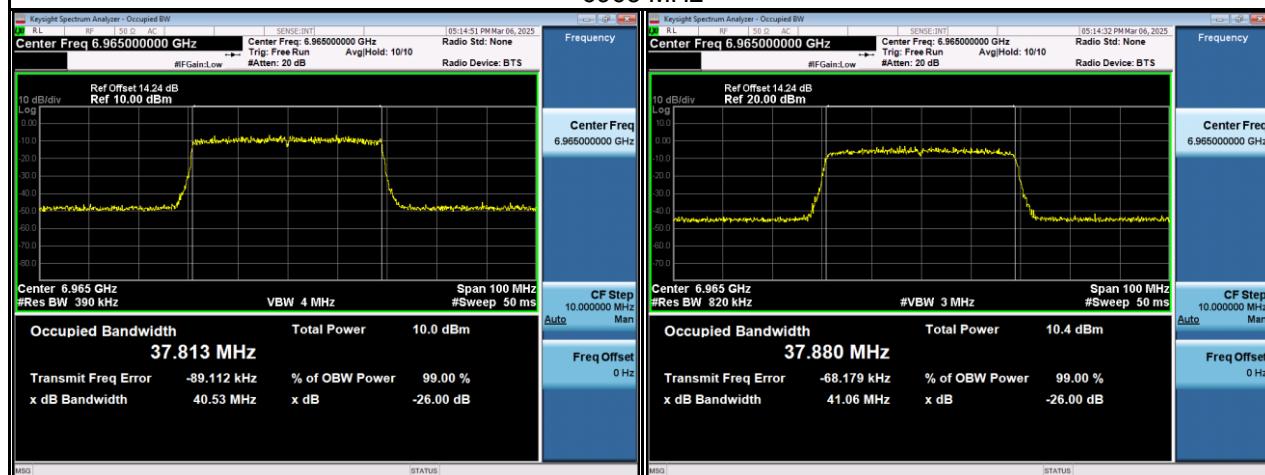


| Test Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | Limit (MHz) | Result |
|----------------------|-----------------------|-------------------------------|-------------|--------|
| 6885                 | 40.49                 | 37.85                         | 40          | Pass   |
| 6965                 | 40.53                 | 37.88                         | 40          | Pass   |
| 7085                 | 40.33                 | 37.86                         | 40          | Pass   |

## 6885 MHz



## 6965 MHz



## 7085 MHz

