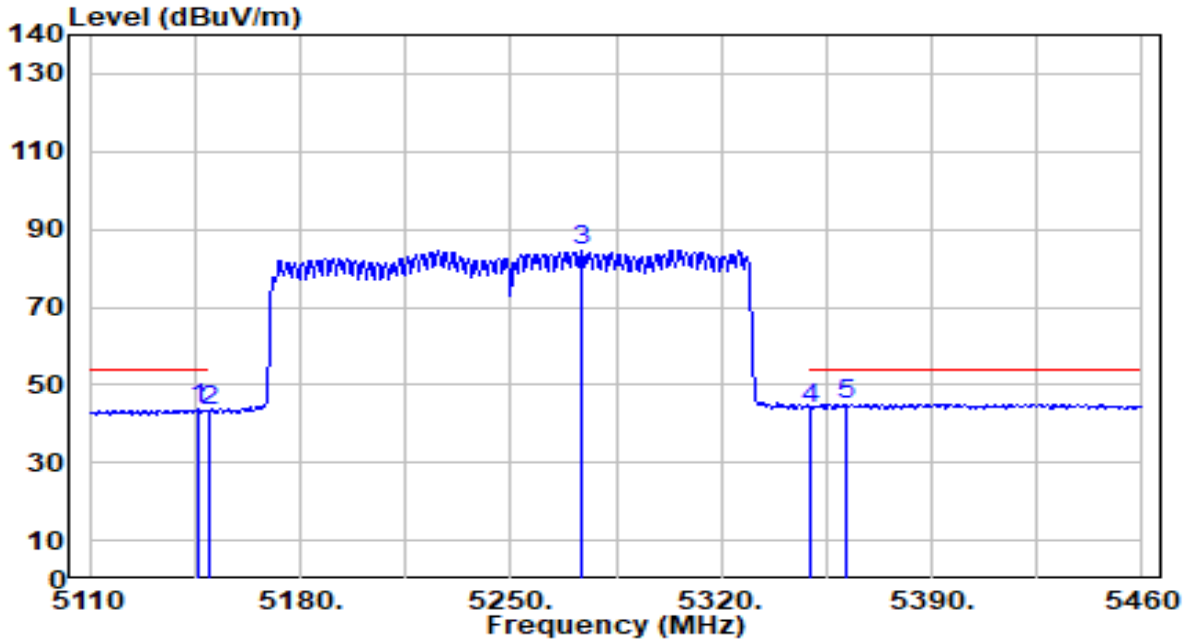
| EUT | BE3600 Dual-Band WiFi 7 Router | Date of Test | 2025-01-16 |
|---|---|---|---|
| Factor | DRH18-E | Temp. / Humidity | 23°C /63% |
| Polarity | Horizontal | Site / Test Engineer | AC2 / Yang |
| Test Mode | 802.11be-160MHz_TX_Band1,2_CH 50_ANT 0+1 | Test Voltage | AC 120V/60Hz |

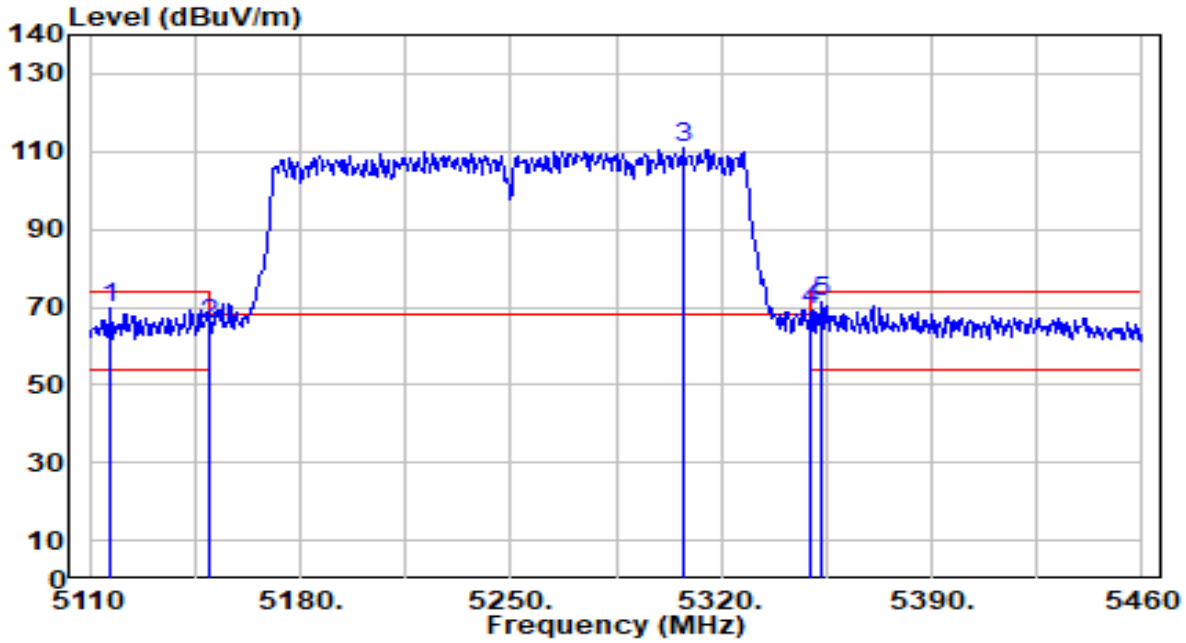



| No | | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 5145.700 | 42.96 | 0.65 | 43.61 | -10.39 | 54.00 | 150 | 26 | Average |
| 2 | | 5150.000 | 42.65 | 0.65 | 43.30 | -10.70 | 54.00 | 150 | 26 | Average |
| 3 | | 5273.450 | 83.81 | 0.59 | 84.40 | N/A | N/A | 150 | 26 | Average |
| 4 | | 5350.000 | 43.62 | 0.47 | 44.09 | -9.91 | 54.00 | 150 | 26 | Average |
| 5 | * | 5361.300 | 44.66 | 0.45 | 45.11 | -8.89 | 54.00 | 150 | 26 | Average |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

| EUT | BE3600 Dual-Band WiFi 7 Router | Date of Test | 2025-01-16 |
|---|---|---|---|
| Factor | DRH18-E | Temp. / Humidity | 23°C /63% |
| Polarity | Vertical | Site / Test Engineer | AC2 / Yang |
| Test Mode | 802.11be-160MHz_TX_Band1,2_CH 50_ANT 0+1 | Test Voltage | AC 120V/60Hz |

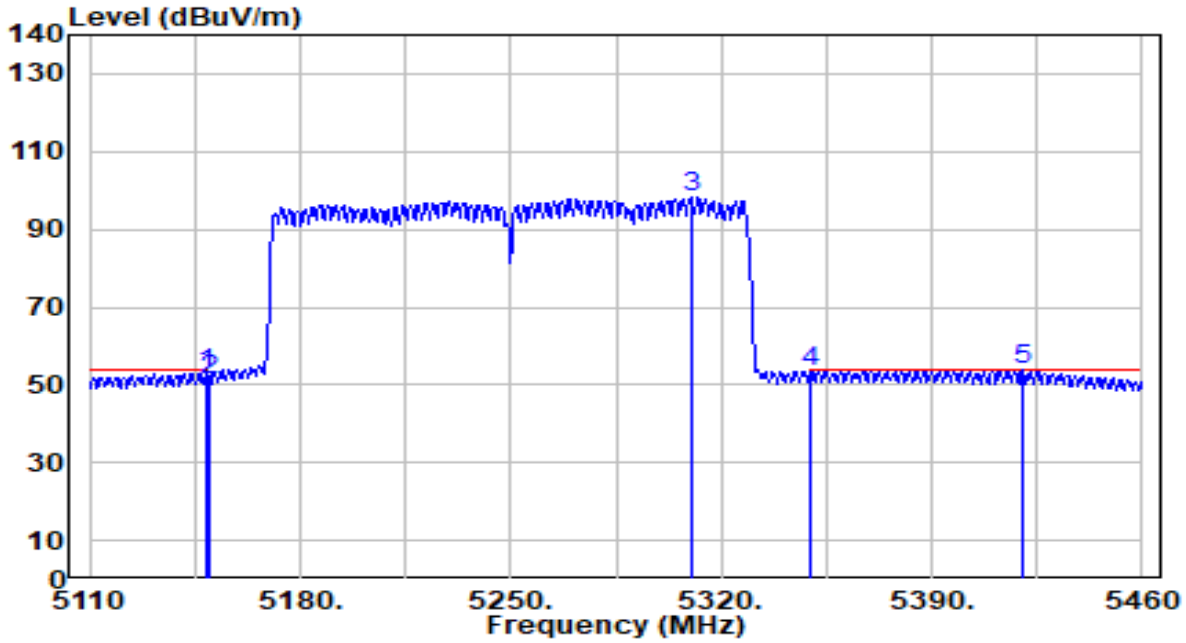



| No | | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 5117.000 | 68.85 | 0.62 | 69.47 | -4.53 | 74.00 | 100 | 236 | Peak |
| 2 | | 5150.000 | 64.86 | 0.65 | 65.51 | -8.49 | 74.00 | 100 | 236 | Peak |
| 3 | | 5307.400 | 110.30 | 0.54 | 110.84 | N/A | N/A | 100 | 236 | Peak |
| 4 | | 5350.000 | 68.71 | 0.47 | 69.19 | -4.81 | 74.00 | 100 | 236 | Peak |
| 5 | * | 5353.250 | 71.00 | 0.47 | 71.47 | -2.53 | 74.00 | 100 | 236 | Peak |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

| EUT | BE3600 Dual-Band WiFi 7 Router | Date of Test | 2025-01-16 |
|---|---|---|---|
| Factor | DRH18-E | Temp. / Humidity | 23°C /63% |
| Polarity | Vertical | Site / Test Engineer | AC2 / Yang |
| Test Mode | 802.11be-160MHz_TX_Band1,2_CH 50_ANT 0+1 | Test Voltage | AC 120V/60Hz |

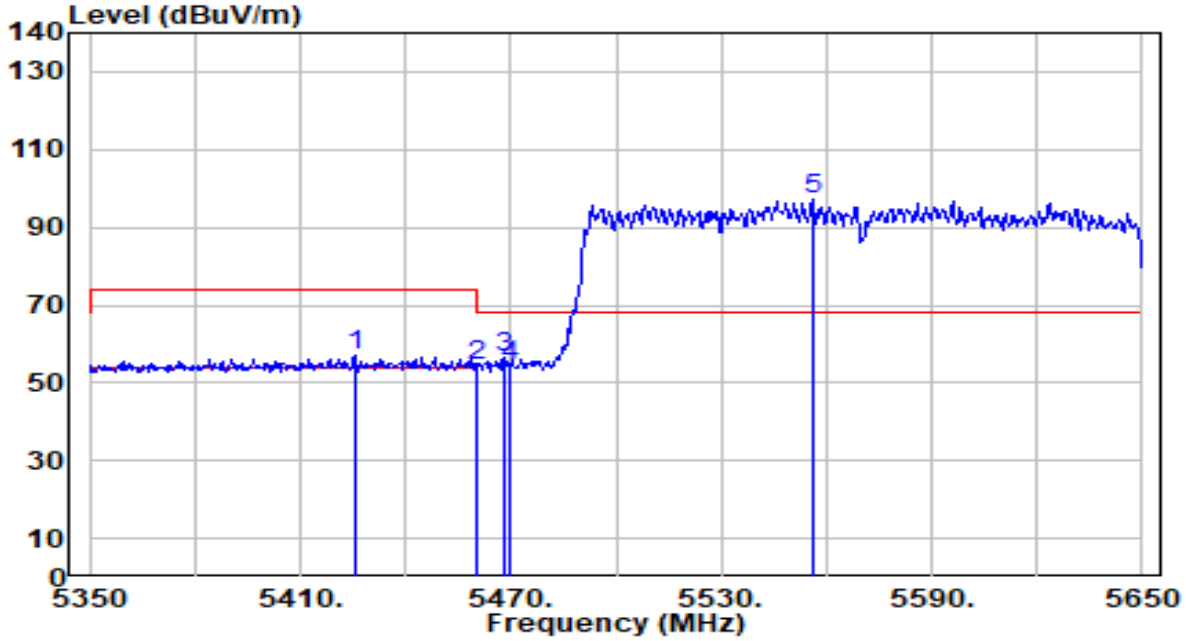



| No | | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 5148.850 | 52.43 | 0.65 | 53.09 | -0.91 | 54.00 | 100 | 236 | Average |
| 2 | | 5150.000 | 50.47 | 0.65 | 51.12 | -2.88 | 54.00 | 100 | 236 | Average |
| 3 | | 5309.850 | 97.48 | 0.53 | 98.01 | N/A | N/A | 100 | 236 | Average |
| 4 | | 5350.000 | 52.72 | 0.47 | 53.19 | -0.81 | 54.00 | 100 | 236 | Average |
| 5 | * | 5420.100 | 53.39 | 0.48 | 53.88 | -0.12 | 54.00 | 100 | 236 | Average |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

| EUT | BE3600 Dual-Band WiFi 7 Router | Date of Test | 2025-01-16 |
|---|---|---|---|
| Factor | DRH18-E | Temp. / Humidity | 23°C /63% |
| Polarity | Horizontal | Site / Test Engineer | AC2 / Yang |
| Test Mode | 802.11be-160MHz_TX_Band3_CH 114_ANT 0+1 | Test Voltage | AC 120V/60Hz |

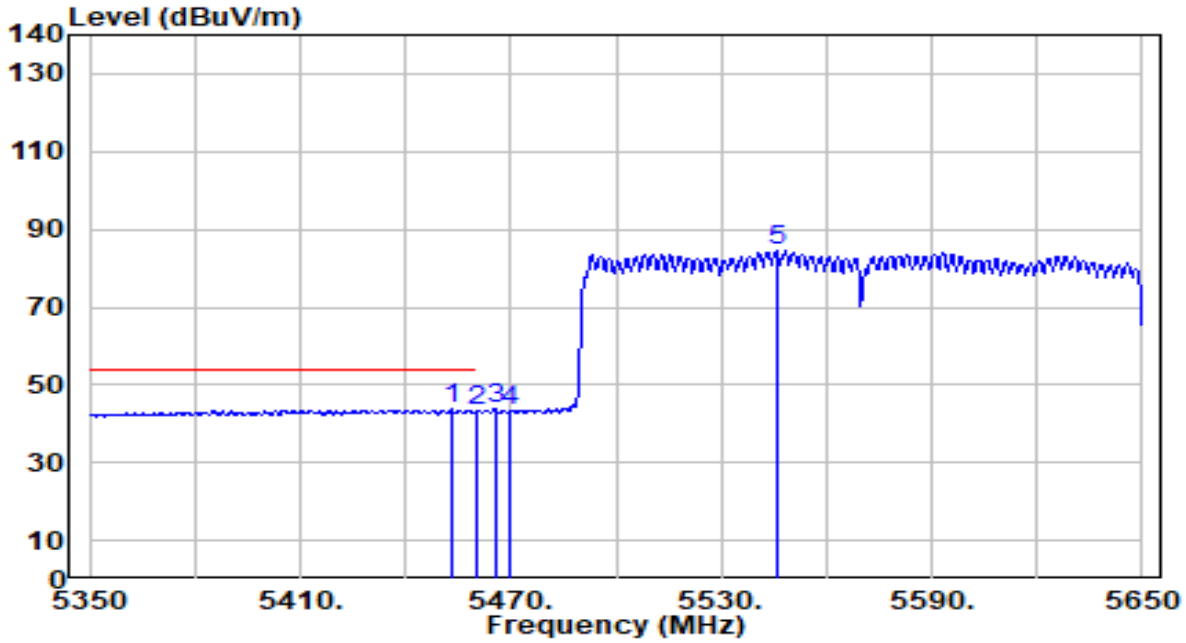



| No | | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 5425.600 | 56.70 | 0.51 | 57.21 | -16.79 | 74.00 | 150 | 92 | Peak |
| 2 | | 5460.000 | 53.58 | 0.66 | 54.24 | -19.76 | 74.00 | 150 | 92 | Peak |
| 3 | * | 5467.900 | 55.67 | 0.70 | 56.37 | -11.83 | 68.20 | 150 | 92 | Peak |
| 4 | | 5470.000 | 53.63 | 0.71 | 54.33 | -13.87 | 68.20 | 150 | 92 | Peak |
| 5 | | 5556.100 | 96.18 | 1.10 | 97.28 | N/A | N/A | 150 | 92 | Peak |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

| EUT | BE3600 Dual-Band WiFi 7 Router | Date of Test | 2025-01-16 |
|---|---|---|---|
| Factor | DRH18-E | Temp. / Humidity | 23°C /63% |
| Polarity | Horizontal | Site / Test Engineer | AC2 / Yang |
| Test Mode | 802.11be-160MHz_TX_Band3_CH 114_ANT 0+1 | Test Voltage | AC 120V/60Hz |

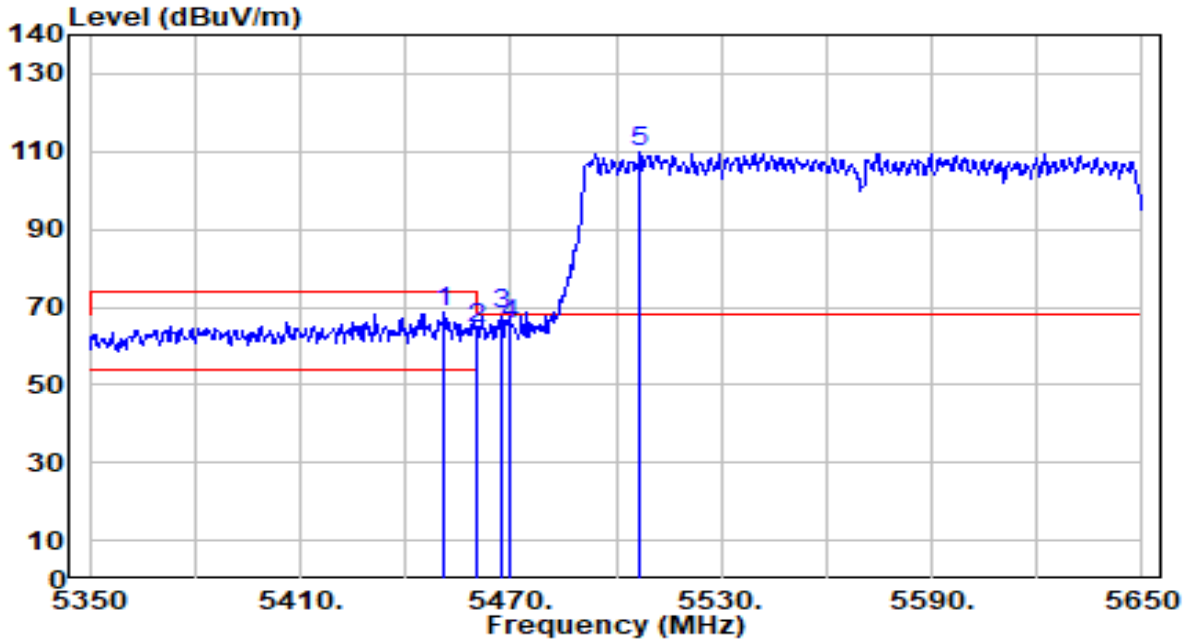



| No | | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * | 5452.900 | 42.97 | 0.63 | 43.60 | -10.40 | 54.00 | 150 | 92 | Average |
| 2 | | 5460.000 | 42.73 | 0.66 | 43.39 | -10.61 | 54.00 | 150 | 92 | Average |
| 3 | | 5465.500 | 43.09 | 0.69 | 43.77 | N/A | N/A | 150 | 92 | Average |
| 4 | | 5470.000 | 42.47 | 0.71 | 43.18 | N/A | N/A | 150 | 92 | Average |
| 5 | | 5545.900 | 83.59 | 1.05 | 84.65 | N/A | N/A | 150 | 92 | Average |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

| EUT | BE3600 Dual-Band WiFi 7 Router | Date of Test | 2025-01-16 |
|---|---|---|---|
| Factor | DRH18-E | Temp. / Humidity | 23°C /63% |
| Polarity | Vertical | Site / Test Engineer | AC2 / Yang |
| Test Mode | 802.11be-160MHz_TX_Band3_CH 114_ANT 0+1 | Test Voltage | AC 120V/60Hz |

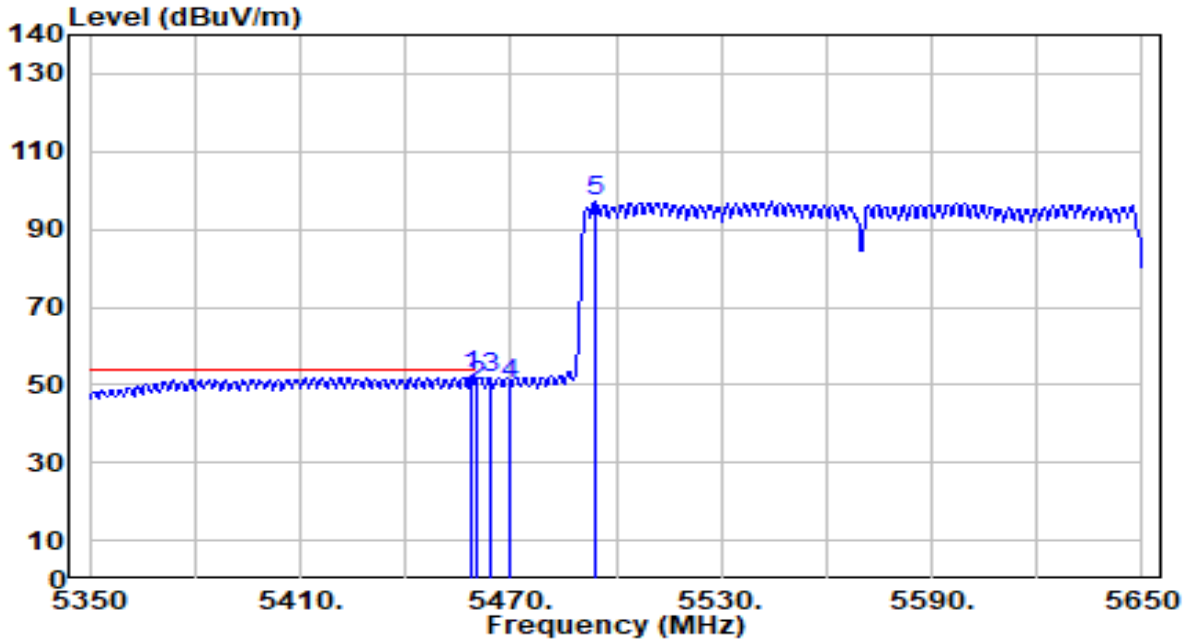



| No | | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 5450.800 | 68.31 | 0.62 | 68.93 | -5.07 | 74.00 | 120 | 328 | Peak |
| 2 | | 5460.000 | 63.64 | 0.66 | 64.30 | -9.70 | 74.00 | 120 | 328 | Peak |
| 3 | * | 5467.300 | 67.34 | 0.69 | 68.03 | -0.17 | 68.20 | 120 | 328 | Peak |
| 4 | | 5470.000 | 64.58 | 0.71 | 65.29 | -2.91 | 68.20 | 120 | 328 | Peak |
| 5 | | 5506.900 | 108.75 | 0.87 | 109.62 | N/A | N/A | 120 | 328 | Peak |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

| EUT | BE3600 Dual-Band WiFi 7 Router | Date of Test | 2025-01-16 |
|---|---|---|---|
| Factor | DRH18-E | Temp. / Humidity | 23°C /63% |
| Polarity | Vertical | Site / Test Engineer | AC2 / Yang |
| Test Mode | 802.11be-160MHz_TX_Band3_CH 114_ANT 0+1 | Test Voltage | AC 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * | 5458.900 | 51.59 | 0.66 | 52.25 | -1.75 | 54.00 | 120 | 328 | Average |
| 2 | | 5460.000 | 48.88 | 0.66 | 49.54 | -4.46 | 54.00 | 120 | 328 | Average |
| 3 | | 5464.000 | 51.26 | 0.68 | 51.94 | N/A | N/A | 120 | 328 | Average |
| 4 | | 5470.000 | 49.33 | 0.71 | 50.03 | N/A | N/A | 120 | 328 | Average |
| 5 | | 5494.000 | 96.15 | 0.81 | 96.96 | N/A | N/A | 120 | 328 | Average |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

## 7.10.AC Conducted Emissions Measurement

### 7.10.1.Test Limit

| FCC Part 15.207 Limits | | |
|---|---|---|
| Frequency (MHz) | QP (dBμV) | AV (dBμV) |
| 0.15 - 0.50 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30 | 60 | 50 |

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

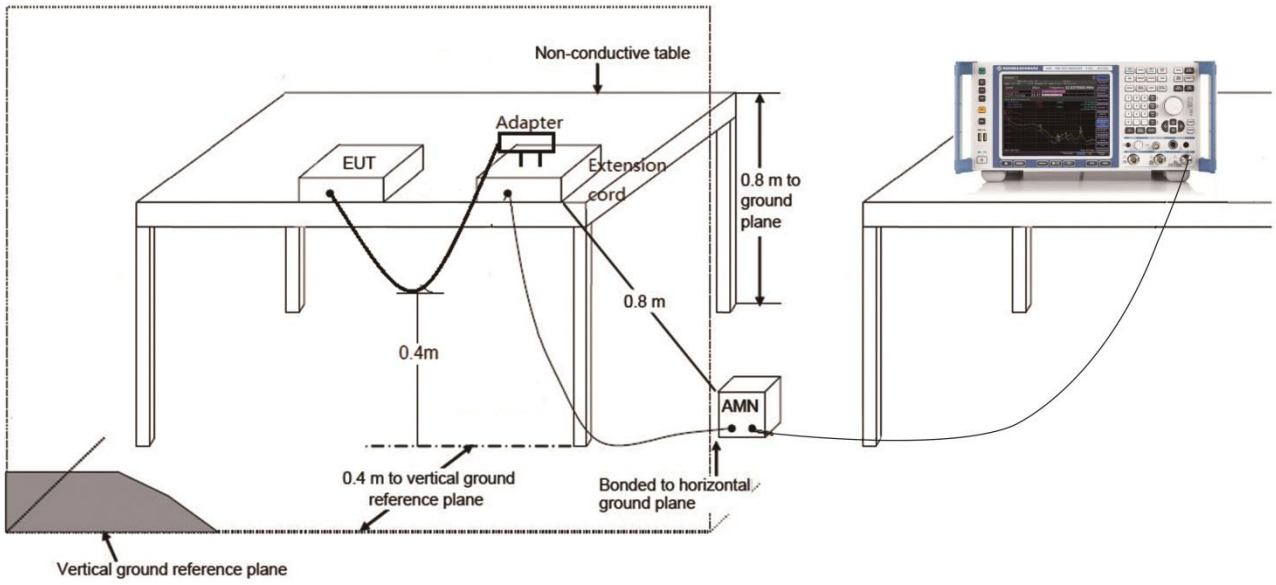
### 7.10.2.Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to KDB 789033 for compliance to FCC 47CFR 15.247 requirements.The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

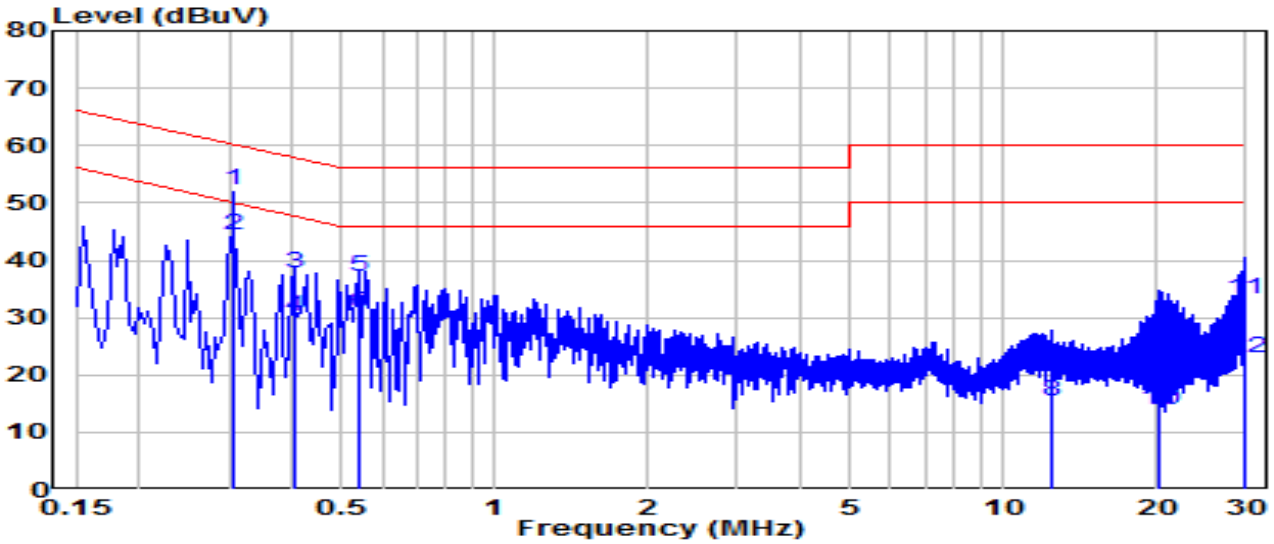
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

## 7.10.3.Test Setup



### 7.10.4.Test Result

| EUT | BE3600 Dual-Band Wi-Fi 7 Router | Date of Test | 2025-01-08 |
|---|---|---|---|
| Factor | CE_ENV216-L1 (Filter ON) | Temp. / Humidity | 21.4°C /54% |
| Polarity | Line1 | Site / Test Engineer | SR2 / Ryan |
| Test Mode | 802.11ac-20MHz_TX_Band1_CH 40_ANT 0+1 | Test Voltage | AC 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBuV) | C.F (dB) | Measurement (dBuV) | Margin (dB) | Limit (dBuV) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 0.307 | 42.71 | 9.64 | 52.35 | -7.69 | 60.04 | QP |
| 2 | * | 0.307 | 34.81 | 9.64 | 44.45 | -5.59 | 50.04 | Average |
| 3 | | 0.402 | 28.10 | 9.64 | 37.74 | -20.07 | 57.81 | QP |
| 4 | | 0.402 | 20.44 | 9.64 | 30.09 | -17.73 | 47.81 | Average |
| 5 | | 0.541 | 27.45 | 9.65 | 37.11 | -18.89 | 56.00 | QP |
| 6 | | 0.541 | 21.16 | 9.65 | 30.81 | -15.19 | 46.00 | Average |
| 7 | | 12.461 | 10.73 | 9.88 | 20.62 | -39.38 | 60.00 | QP |
| 8 | | 12.461 | 5.54 | 9.88 | 15.43 | -34.57 | 50.00 | Average |
| 9 | | 20.186 | 16.28 | 9.94 | 26.22 | -33.78 | 60.00 | QP |
| 10 | | 20.186 | 3.96 | 9.94 | 13.90 | -36.10 | 50.00 | Average |
| 11 | | 29.744 | 23.17 | 9.93 | 33.10 | -26.90 | 60.00 | QP |
| 12 | | 29.744 | 12.88 | 9.93 | 22.81 | -27.19 | 50.00 | Average |

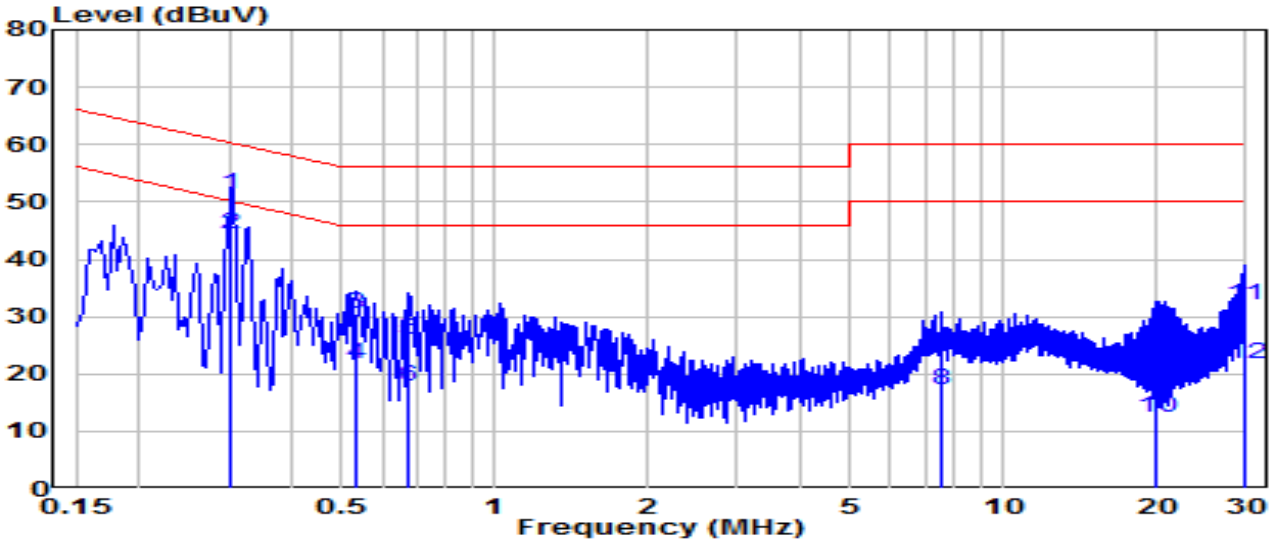
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).

3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

| EUT | BE3600 Dual-Band Wi-Fi 7 Router | Date of Test | 2025-01-08 |
|---|---|---|---|
| Factor | CE_ENV216-N (Filter ON) | Temp. / Humidity | 21.4°C /54% |
| Polarity | Neutral | Site / Test Engineer | SR2 / Ryan |
| Test Mode | 802.11ac-20MHz_TX_Band1_CH 40_ANT 0+1 | Test Voltage | AC 120V/60Hz |




| No | | Frequency (MHz) | Reading (dBuV) | C.F (dB) | Measurement (dBuV) | Margin (dB) | Limit (dBuV) | Remark (QP/PK/AV) |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 0.303 | 41.80 | 9.64 | 51.44 | -8.72 | 60.16 | QP |
| 2 | * | 0.303 | 34.65 | 9.64 | 44.29 | -5.87 | 50.16 | Average |
| 3 | | 0.532 | 20.96 | 9.65 | 30.61 | -25.39 | 56.00 | QP |
| 4 | | 0.532 | 12.08 | 9.65 | 21.73 | -24.27 | 46.00 | Average |
| 5 | | 0.676 | 16.32 | 9.66 | 25.99 | -30.01 | 56.00 | QP |
| 6 | | 0.676 | 8.29 | 9.66 | 17.95 | -28.05 | 46.00 | Average |
| 7 | | 7.520 | 13.76 | 9.82 | 23.59 | -36.41 | 60.00 | QP |
| 8 | | 7.520 | 7.43 | 9.82 | 17.25 | -32.75 | 50.00 | Average |
| 9 | | 19.894 | 14.30 | 10.00 | 24.30 | -35.70 | 60.00 | QP |
| 10 | | 19.894 | 2.44 | 10.00 | 12.44 | -37.56 | 50.00 | Average |
| 11 | | 29.865 | 21.99 | 10.06 | 32.05 | -27.95 | 60.00 | QP |
| 12 | | 29.865 | 11.78 | 10.06 | 21.84 | -28.16 | 50.00 | Average |

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

# 8. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with Part 15E of the FCC Rules.

# Appendix A : Test Setup Photograph

Refer to “2412TW0120-UT” file.

# Appendix B : EUT Photograph

Refer to “2412TW0120-UE” file.

# Appendix C : Internal Photograph

Refer to “2412TW0120-UI” file.

The End