

**Conducted Spurious Emission**

| TestMode  | Antenna | Channel | FreqRange<br>[Mhz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|-----------|---------|---------|--------------------|-------------------|-----------------|----------------|---------|
| 11B       | Ant1    | 2412    | Reference          | 8.84              | 8.84            | ---            | PASS    |
|           |         |         | 30~1000            | 8.84              | -40.78          | ≤-11.16        | PASS    |
|           |         |         | 1000~26500         | 8.84              | -31.44          | ≤-11.16        | PASS    |
|           |         | 2437    | Reference          | 9.06              | 9.06            | ---            | PASS    |
|           |         |         | 30~1000            | 9.06              | -41.72          | ≤-10.94        | PASS    |
|           |         |         | 1000~26500         | 9.06              | -32.17          | ≤-10.94        | PASS    |
|           |         | 2462    | Reference          | 7.96              | 7.96            | ---            | PASS    |
|           |         |         | 30~1000            | 7.96              | -41.44          | ≤-12.04        | PASS    |
|           |         |         | 1000~26500         | 7.96              | -32.22          | ≤-12.04        | PASS    |
| 11G       | Ant1    | 2412    | Reference          | 3.02              | 3.02            | ---            | PASS    |
|           |         |         | 30~1000            | 3.02              | -40.06          | ≤-16.98        | PASS    |
|           |         |         | 1000~26500         | 3.02              | -32.03          | ≤-16.98        | PASS    |
|           |         | 2437    | Reference          | 3.29              | 3.29            | ---            | PASS    |
|           |         |         | 30~1000            | 3.29              | -41.47          | ≤-16.71        | PASS    |
|           |         |         | 1000~26500         | 3.29              | -31.98          | ≤-16.71        | PASS    |
|           |         | 2462    | Reference          | 3.96              | 3.96            | ---            | PASS    |
|           |         |         | 30~1000            | 3.96              | -40.74          | ≤-16.04        | PASS    |
|           |         |         | 1000~26500         | 3.96              | -32.19          | ≤-16.04        | PASS    |
| 11N20SISO | Ant1    | 2412    | Reference          | 2.41              | 2.41            | ---            | PASS    |
|           |         |         | 30~1000            | 2.41              | -40.98          | ≤-17.59        | PASS    |
|           |         |         | 1000~26500         | 2.41              | -32.16          | ≤-17.59        | PASS    |
|           |         | 2437    | Reference          | 2.58              | 2.58            | ---            | PASS    |
|           |         |         | 30~1000            | 2.58              | -41.02          | ≤-17.42        | PASS    |
|           |         |         | 1000~26500         | 2.58              | -32.46          | ≤-17.42        | PASS    |
|           |         | 2462    | Reference          | 2.01              | 2.01            | ---            | PASS    |
|           |         |         | 30~1000            | 2.01              | -41.53          | ≤-17.99        | PASS    |
|           |         |         | 1000~26500         | 2.01              | -31.19          | ≤-17.99        | PASS    |

### 11B Ant1 2412 0~Reference



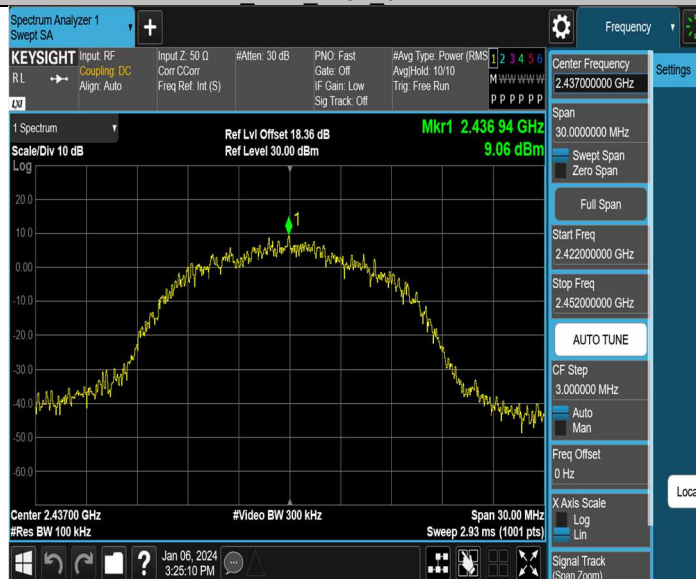
### 11B Ant1 2412 30~1000



### 11B Ant1 2412 1000~26500



### 11B\_Ant1\_2437\_0~Reference



### 11B\_Ant1\_2437\_30~1000



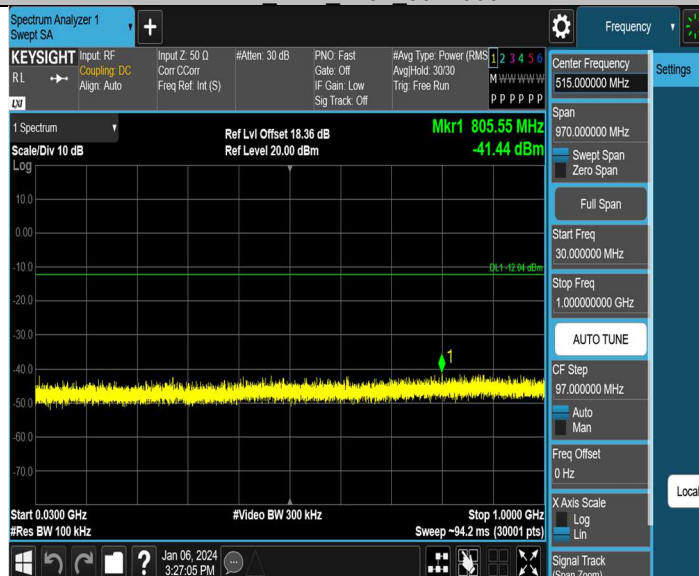
### 11B\_Ant1\_2437\_1000~26500



11B\_Ant1\_2462\_0~Reference



11B\_Ant1\_2462\_30~1000



11B\_Ant1\_2462\_1000~26500















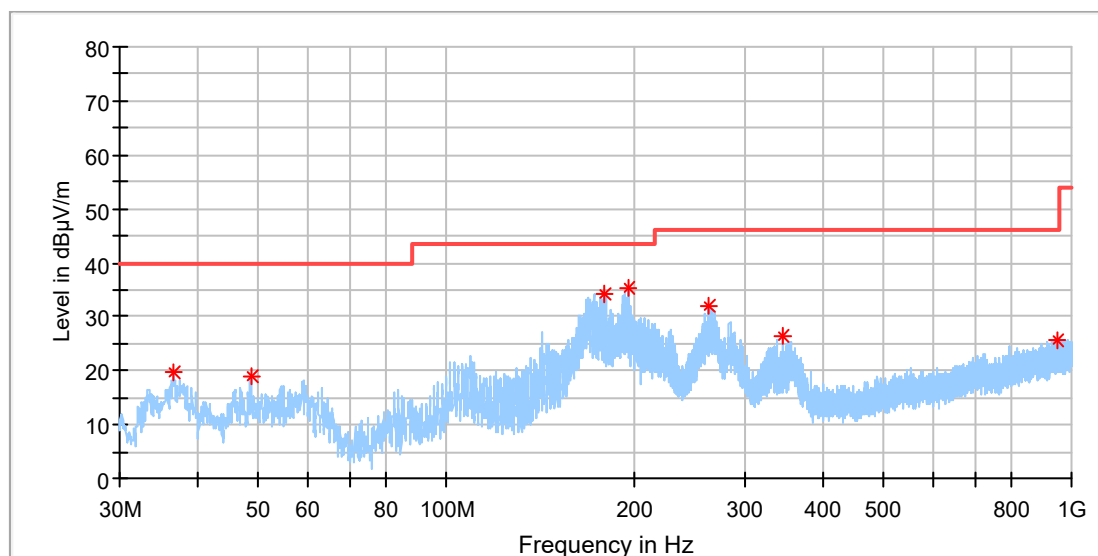
## Appendix A.5: Test Results of Radiated Spurious Emissions

Note: 1. Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported. 2. This testing was carried out on different modulations, but only the worst case was presented in this report.

### 30MHz - 1GHz (Worst case)

### EUT Information

|                     |                          |
|---------------------|--------------------------|
| EUT Name:           | Home Communication Unit  |
| Model:              | HUB-300                  |
| Test Mode:          | WIFI 2.4G_11b_Ch6        |
| Order No/Sample No: | 168443071/A003550494-002 |
| Test Voltage:       | AC 120V/60Hz             |
| Remark:             | Temp 22 Humi:52%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



### Critical\_Freqs

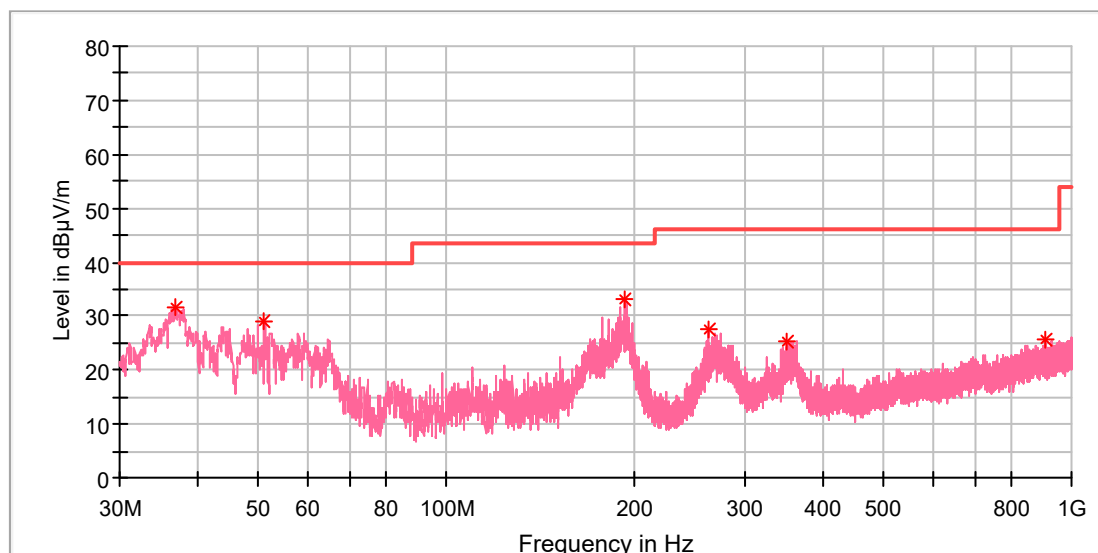
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 36.603462       | 19.70            | 40.00          | 20.30       | 100.0       | H   | 23.0          | -21.6        |
| 48.691154       | 18.96            | 40.00          | 21.04       | 100.0       | H   | 96.0          | -18.7        |
| 179.230769      | 34.27            | 43.50          | 9.23        | 100.0       | H   | 88.0          | -20.9        |
| 195.683462      | 35.35            | 43.50          | 8.15        | 100.0       | H   | 111.0         | -19.5        |
| 263.770000      | 31.98            | 46.00          | 14.02       | 100.0       | H   | 207.0         | -17.4        |
| 345.623077      | 26.27            | 46.00          | 19.73       | 100.0       | H   | 119.0         | -15.3        |
| 946.388846      | 25.85            | 46.00          | 20.15       | 100.0       | H   | 287.0         | -4.9         |

### Final\_Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|--------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---                | ---            | ---         | ---         | --- | ---           | ---          |

## EUT Information

|                     |                          |
|---------------------|--------------------------|
| EUT Name:           | Home Communication Unit  |
| Model:              | HUB-300                  |
| Test Mode:          | WIFI 2.4G_11b_Ch6        |
| Order No/Sample No: | 168443071/A003550494-002 |
| Test Voltage:       | AC 120V/60Hz             |
| Remark:             | Temp 22 Humi:52%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



## Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 36.827308       | 31.61            | 40.00          | 8.39        | 100.0       | V   | 12.0          | -21.5        |
| 51.190769       | 29.15            | 40.00          | 10.85       | 100.0       | V   | 48.0          | -18.6        |
| 193.034615      | 32.94            | 43.50          | 10.56       | 100.0       | V   | 348.0         | -19.7        |
| 261.941923      | 27.66            | 46.00          | 18.34       | 100.0       | V   | 146.0         | -17.4        |
| 350.920769      | 25.48            | 46.00          | 20.52       | 100.0       | V   | 348.0         | -15.2        |
| 908.596154      | 25.69            | 46.00          | 20.31       | 100.0       | V   | 106.0         | -5.3         |

## Final Result

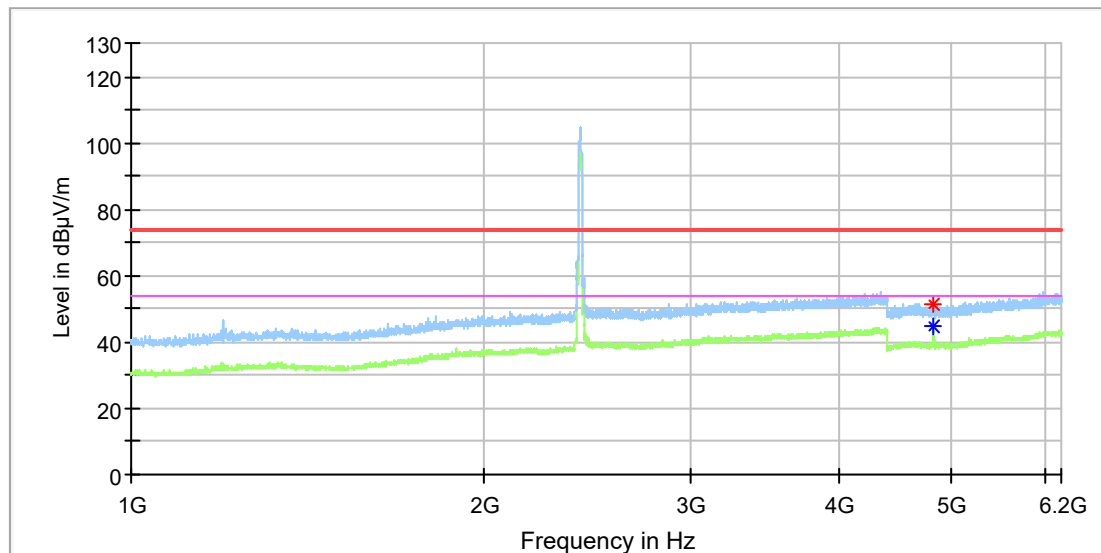
| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|--------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---                | ---            | ---         | ---         |     | ---           | ---          |

## 1GHz - 18GHz

Note: The highest waveform in the figure is Wi-Fi Fundamental.

## EUT Information

|                     |                          |
|---------------------|--------------------------|
| EUT Name:           | Home Communication Unit  |
| Model:              | HUB-300                  |
| Test Mode:          | WIFI 2.4G_11b_Ch1        |
| Order No/Sample No: | 168443071/A003550494-002 |
| Test Voltage:       | AC 120V/60Hz             |
| Remark:             | Temp 22 Humi:52%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



## Critical\_Freqs

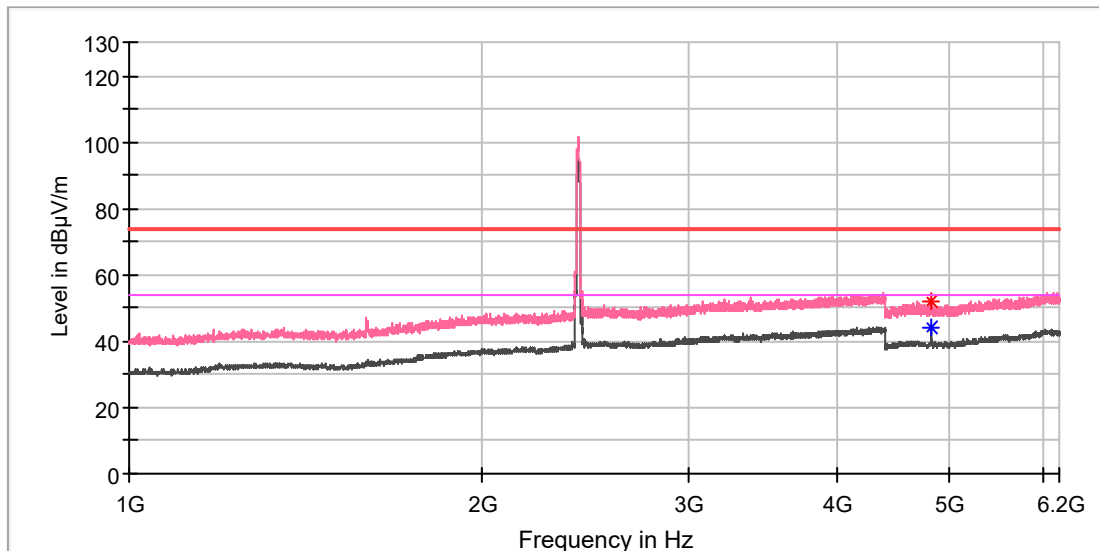
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4823.000000     | 51.30            | ---              | 74.00          | 22.70       | 150.0       | H   | 329.0         | 11.8         |
| 4824.000000     | ---              | 44.77            | 54.00          | 9.23        | 150.0       | H   | 46.0          | 11.8         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11b\_Ch1  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

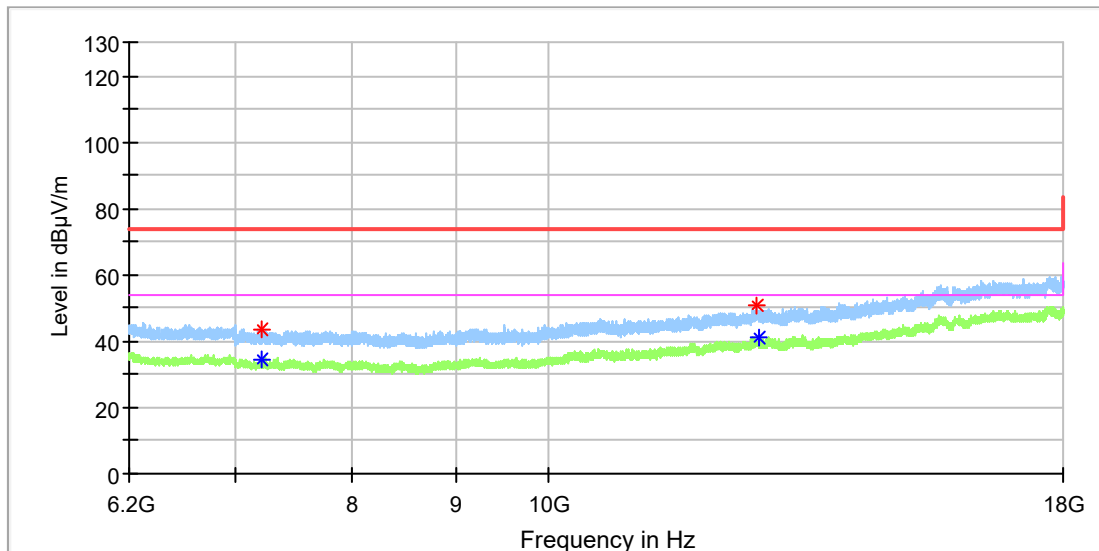
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4823.000000     | 52.07            | ---              | 74.00          | 21.93       | 150.0       | V   | 38.0          | 11.8         |
| 4824.000000     | ---              | 43.91            | 54.00          | 10.09       | 150.0       | V   | 3.0           | 11.8         |

## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11b\_Ch1  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

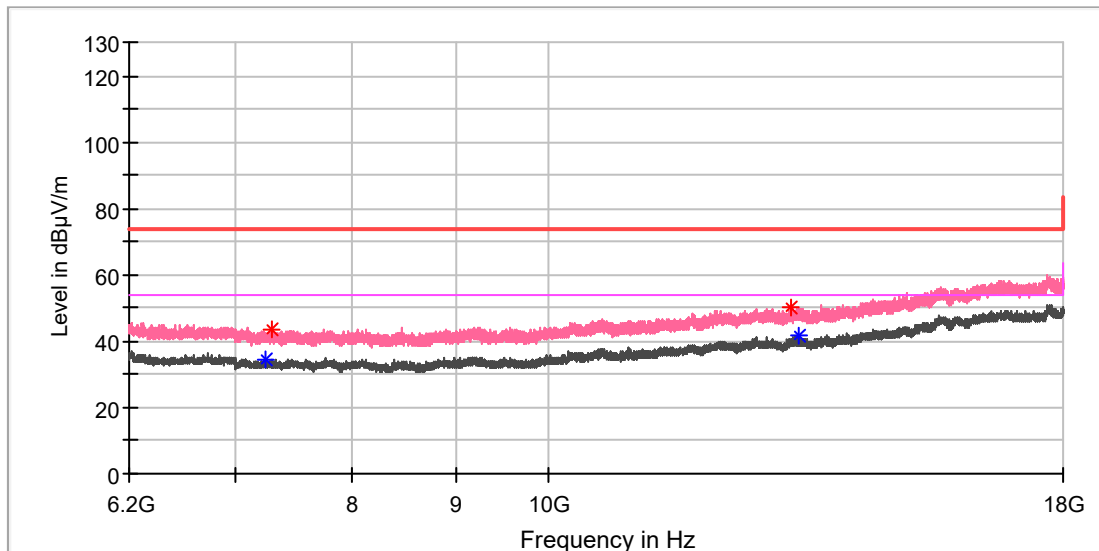
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7217.258333     | 43.37            | ---              | 74.00          | 30.63       | 150.0       | H   | 21.0          | 8.7          |
| 7217.750000     | ---              | 34.33            | 54.00          | 19.68       | 150.0       | H   | 133.0         | 8.7          |
| 12685.575000    | 50.65            | ---              | 74.00          | 23.35       | 150.0       | H   | 157.0         | 15.1         |
| 12704.750000    | ---              | 40.85            | 54.00          | 13.15       | 150.0       | H   | 326.0         | 15.1         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11b\_Ch1  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

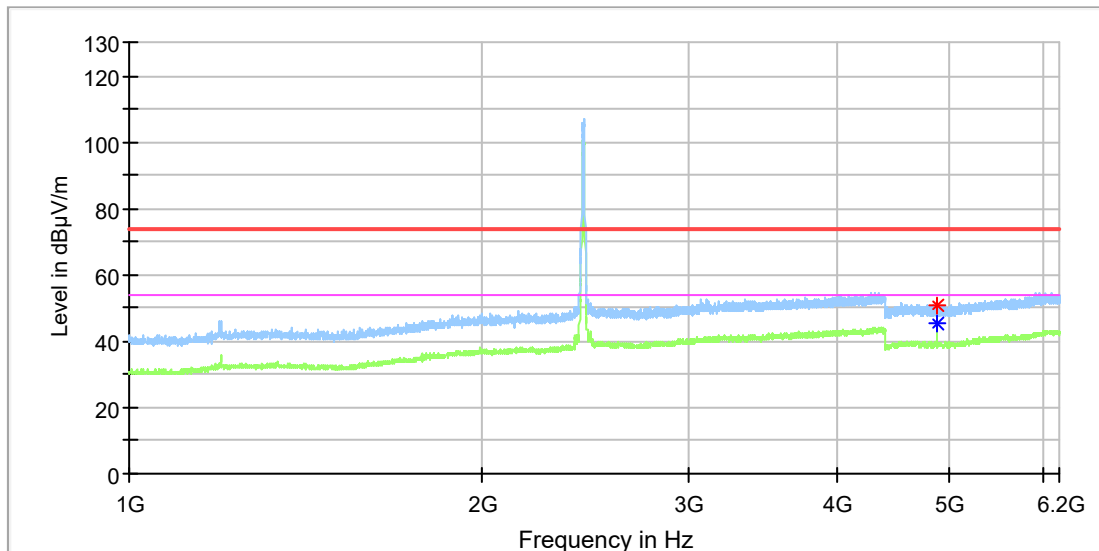
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7246.758333     | ---              | 34.42            | 54.00          | 19.58       | 150.0       | V   | 325.0         | 8.6          |
| 7299.366667     | 43.58            | ---              | 74.00          | 30.42       | 150.0       | V   | 289.0         | 8.3          |
| 13186.583333    | 50.28            | ---              | 74.00          | 23.72       | 150.0       | V   | 169.0         | 15.4         |
| 13298.683333    | ---              | 41.67            | 54.00          | 12.33       | 150.0       | V   | 0.0           | 15.5         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11b\_Ch6  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

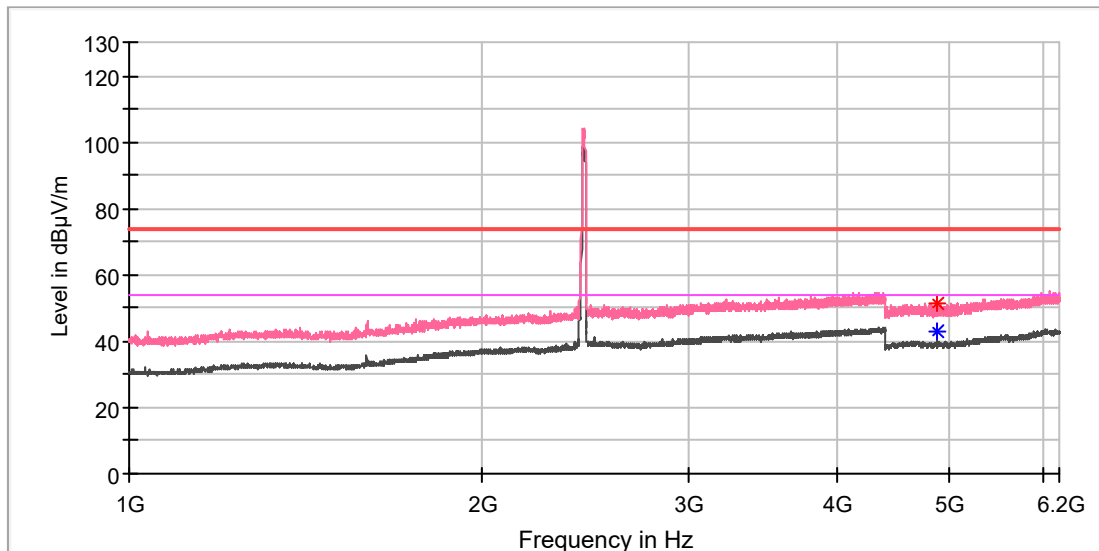
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4873.500000     | 50.81            | ---              | 74.00          | 23.19       | 150.0       | H   | 33.0          | 11.8         |
| 4874.000000     | ---              | 45.30            | 54.00          | 8.70        | 150.0       | H   | 28.0          | 11.8         |

## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11b\_Ch6  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

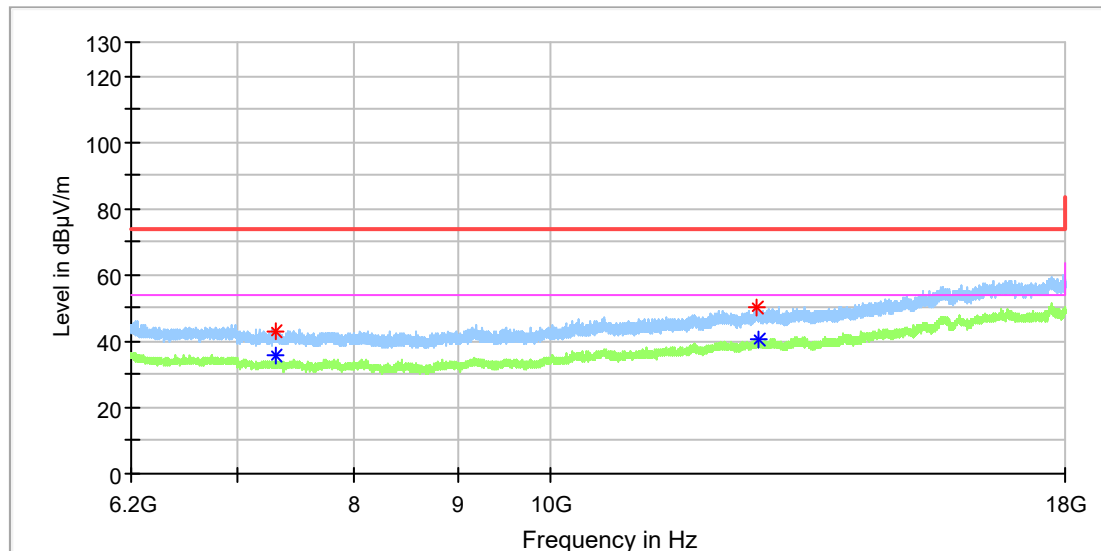
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4873.500000     | ---              | 42.81            | 54.00          | 11.19       | 150.0       | V   | 9.0           | 11.8         |
| 4874.500000     | 51.45            | ---              | 74.00          | 22.55       | 150.0       | V   | 4.0           | 11.8         |

## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11b\_Ch6  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

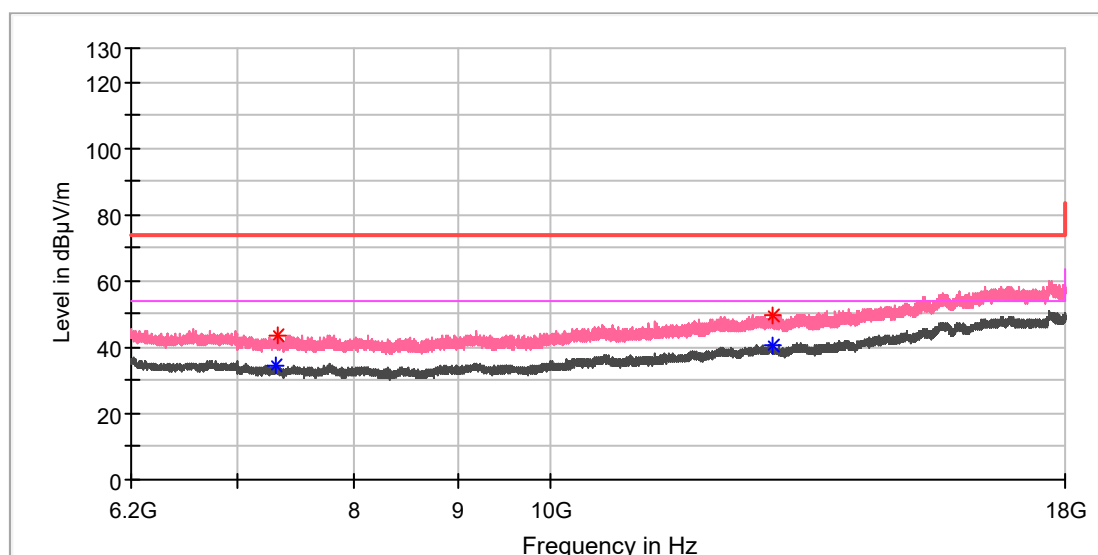
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7310.675000     | ---              | 35.82            | 54.00          | 18.18       | 150.0       | H   | 224.0         | 8.2          |
| 7312.150000     | 43.22            | ---              | 74.00          | 30.78       | 150.0       | H   | 0.0           | 8.2          |
| 12647.225000    | 49.99            | ---              | 74.00          | 24.01       | 150.0       | H   | 323.0         | 15.0         |
| 12692.458333    | ---              | 40.78            | 54.00          | 13.22       | 150.0       | H   | 0.0           | 15.1         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
 Model: HUB-300  
 Test Mode: WIFI 2.4G\_11b\_Ch6  
 Order No/Sample No: 168443071/A003550494-002  
 Test Voltage: AC 120V/60Hz  
 Remark: Temp 22 Humi:52%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



## Critical\_Freqs

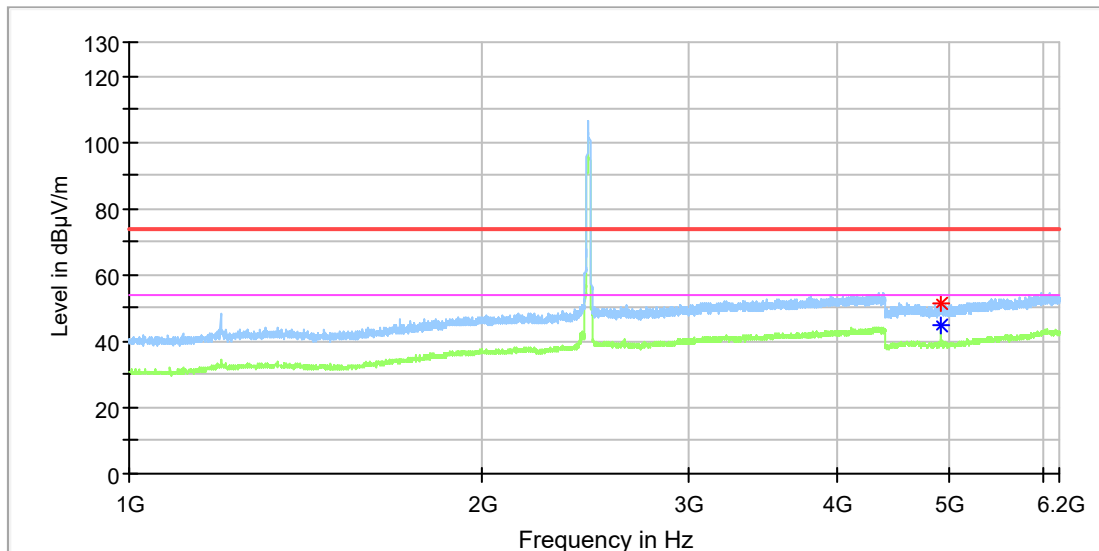
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7310.675000     | ---              | 34.54            | 54.00          | 19.46       | 150.0       | V   | 0.0           | 8.2          |
| 7328.375000     | 43.31            | ---              | 74.00          | 30.69       | 150.0       | V   | 208.0         | 8.1          |
| 12878.800000    | 49.32            | ---              | 74.00          | 24.68       | 150.0       | V   | 185.0         | 15.4         |
| 12882.733333    | ---              | 40.67            | 54.00          | 13.33       | 150.0       | V   | 112.0         | 15.4         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11b\_Ch11  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

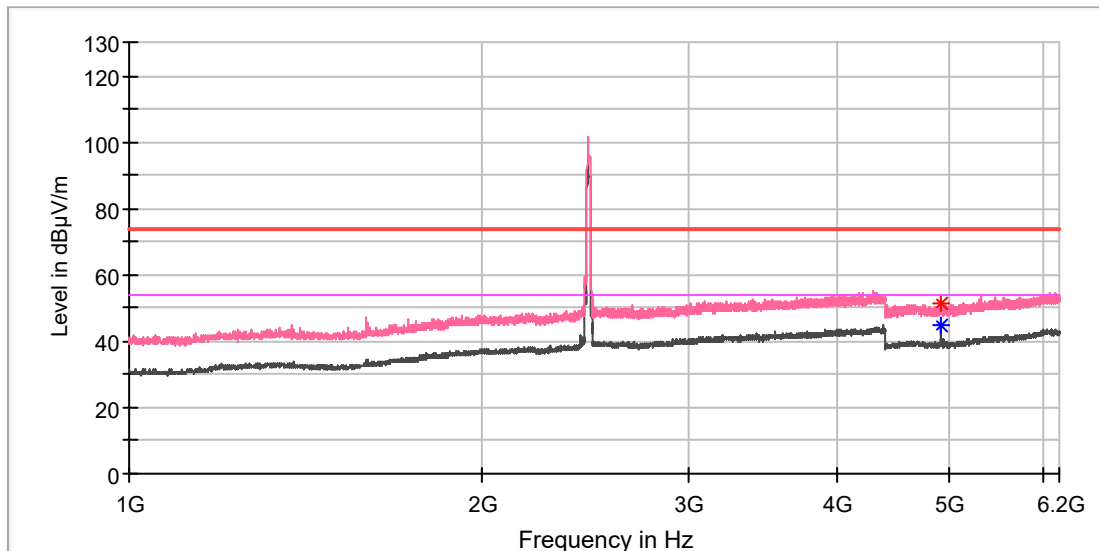
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4923.500000     | 51.26            | ---              | 74.00          | 22.74       | 150.0       | H   | 31.0          | 11.8         |
| 4923.500000     | ---              | 44.93            | 54.00          | 9.07        | 150.0       | H   | 31.0          | 11.8         |

## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11b\_Ch11  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

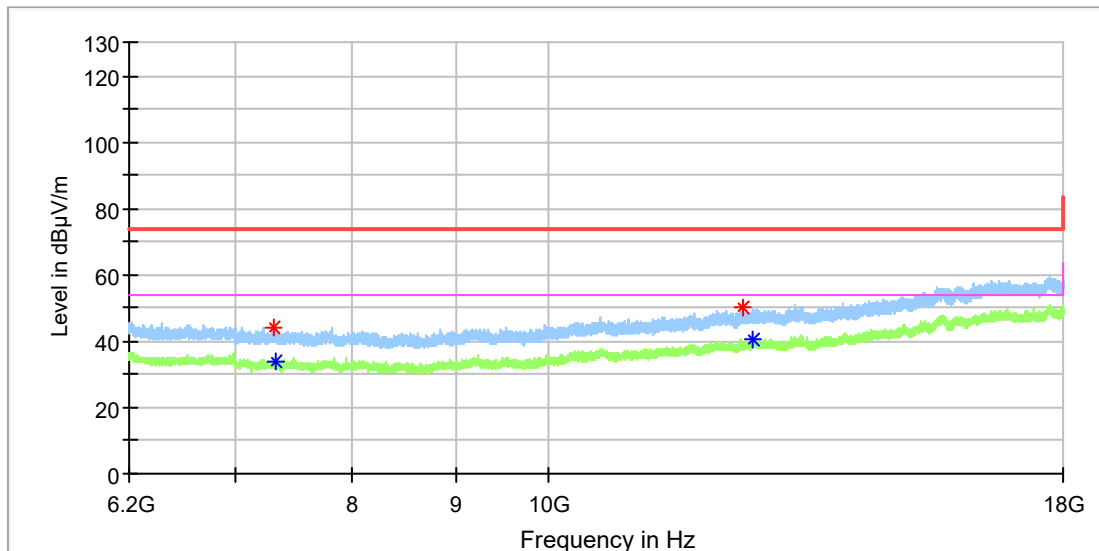
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4923.500000     | 51.66            | ---              | 74.00          | 22.34       | 150.0       | V   | 313.0         | 11.8         |
| 4924.000000     | ---              | 44.55            | 54.00          | 9.45        | 150.0       | V   | 25.0          | 11.8         |

## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11b\_Ch11  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

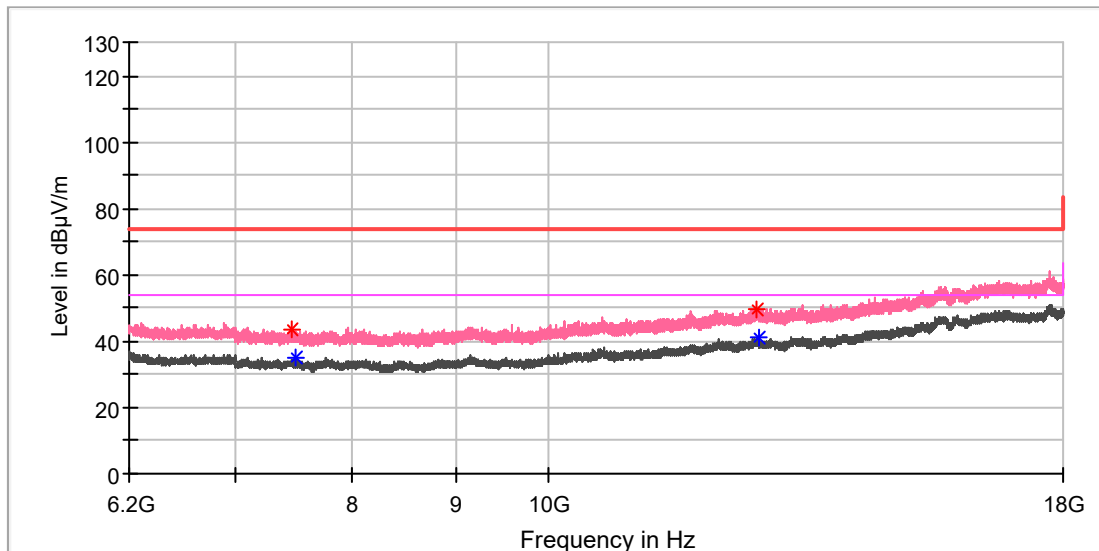
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7306.250000     | 43.95            | ---              | 74.00          | 30.05       | 150.0       | H   | 286.0         | 8.3          |
| 7331.816667     | ---              | 34.12            | 54.00          | 19.88       | 150.0       | H   | 336.0         | 8.1          |
| 12485.466667    | 50.07            | ---              | 74.00          | 23.93       | 150.0       | H   | 57.0          | 14.6         |
| 12638.375000    | ---              | 40.77            | 54.00          | 13.23       | 150.0       | H   | 20.0          | 15.0         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11b\_Ch11  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

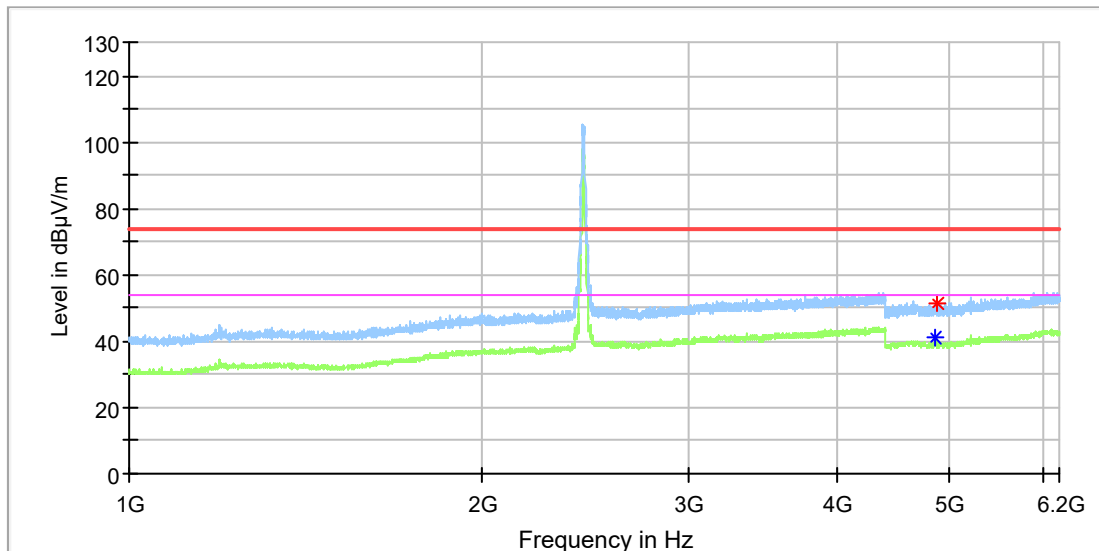
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7457.191667     | 43.76            | ---              | 74.00          | 30.24       | 150.0       | V   | 259.0         | 8.5          |
| 7489.641667     | ---              | 35.16            | 54.00          | 18.84       | 150.0       | V   | 0.0           | 8.7          |
| 12677.216667    | 49.44            | ---              | 74.00          | 24.56       | 150.0       | V   | 84.0          | 15.1         |
| 12703.275000    | ---              | 40.92            | 54.00          | 13.08       | 150.0       | V   | 5.0           | 15.1         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11g\_Ch6  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

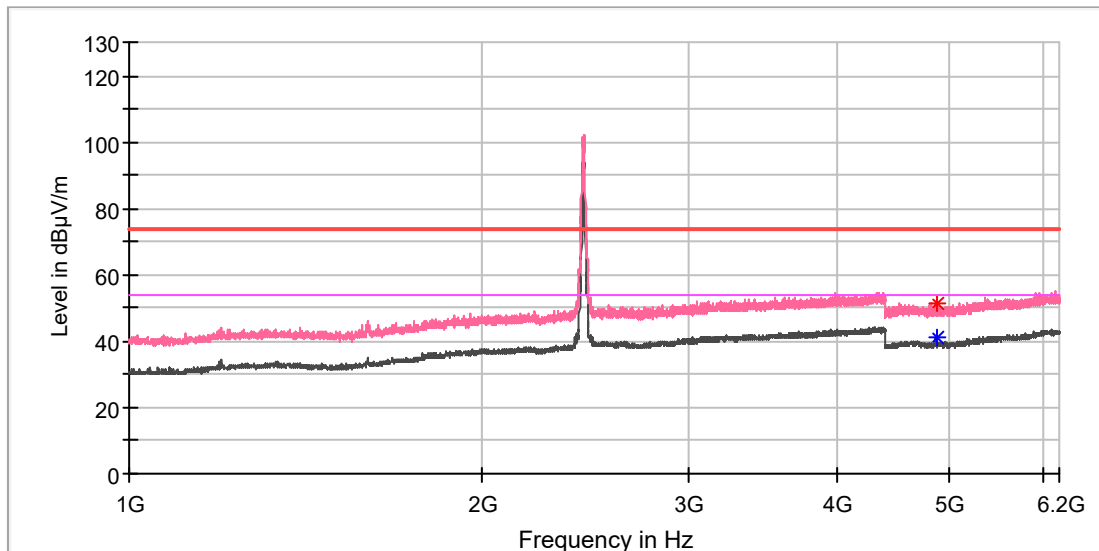
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4867.000000     | ---              | 41.30            | 54.00          | 12.70       | 150.0       | H   | 31.0          | 11.8         |
| 4874.000000     | 51.27            | ---              | 74.00          | 22.73       | 150.0       | H   | 31.0          | 11.8         |

## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11g\_Ch6  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

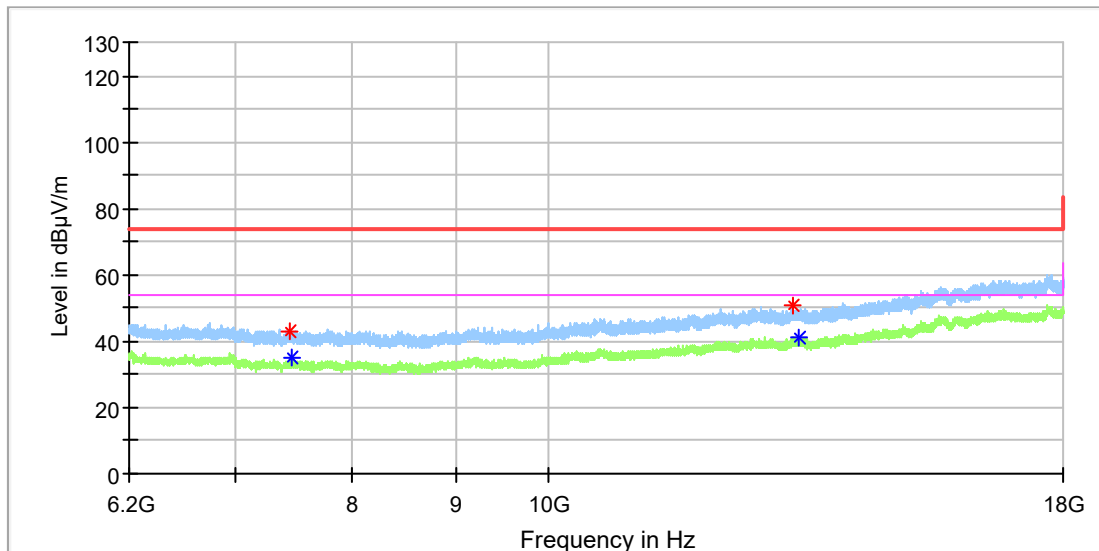
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4869.500000     | 51.25            | ---              | 74.00          | 22.75       | 150.0       | V   | 6.0           | 11.8         |
| 4873.500000     | ---              | 41.12            | 54.00          | 12.88       | 150.0       | V   | 18.0          | 11.8         |

## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11g\_Ch6  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

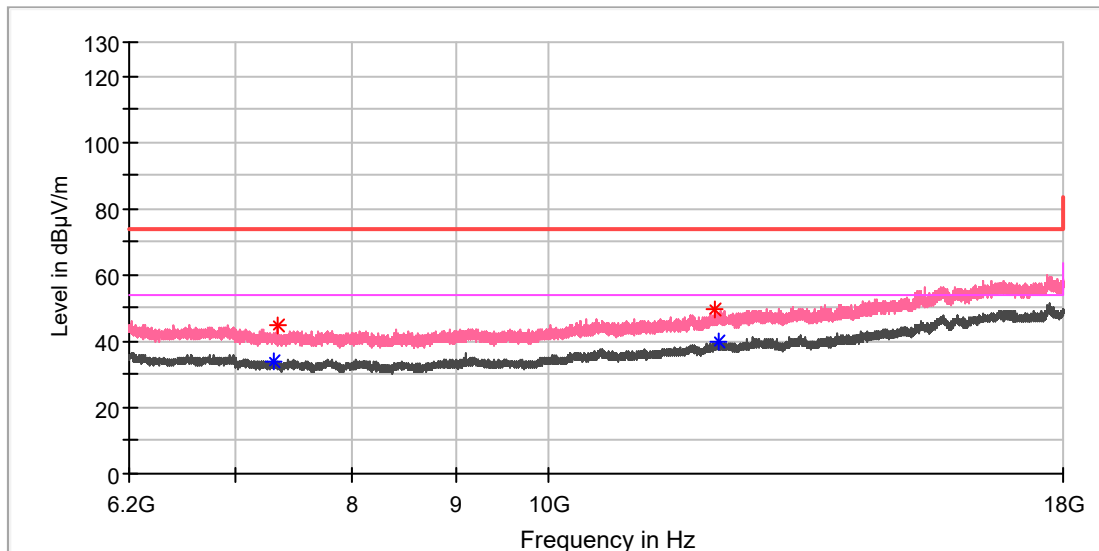
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7442.933333     | 42.88            | ---              | 74.00          | 31.12       | 150.0       | H   | 135.0         | 8.4          |
| 7464.566667     | ---              | 34.80            | 54.00          | 19.20       | 150.0       | H   | 336.0         | 8.6          |
| 13216.575000    | 50.70            | ---              | 74.00          | 23.30       | 150.0       | H   | 325.0         | 15.5         |
| 13303.108333    | ---              | 41.08            | 54.00          | 12.92       | 150.0       | H   | 289.0         | 15.5         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11g\_Ch6  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

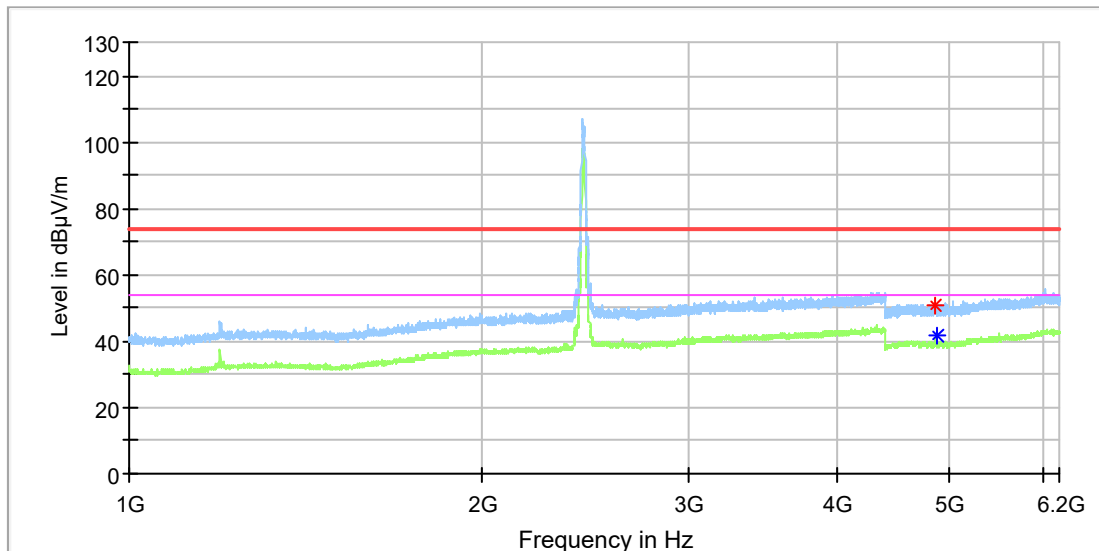
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7304.775000     | ---              | 33.99            | 54.00          | 20.01       | 150.0       | V   | 119.0         | 8.3          |
| 7335.258333     | 44.65            | ---              | 74.00          | 29.35       | 150.0       | V   | 331.0         | 8.1          |
| 12086.233333    | 49.40            | ---              | 74.00          | 24.60       | 150.0       | V   | 143.0         | 14.1         |
| 12144.741667    | ---              | 39.83            | 54.00          | 14.17       | 150.0       | V   | 119.0         | 14.4         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11n20\_Ch6  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

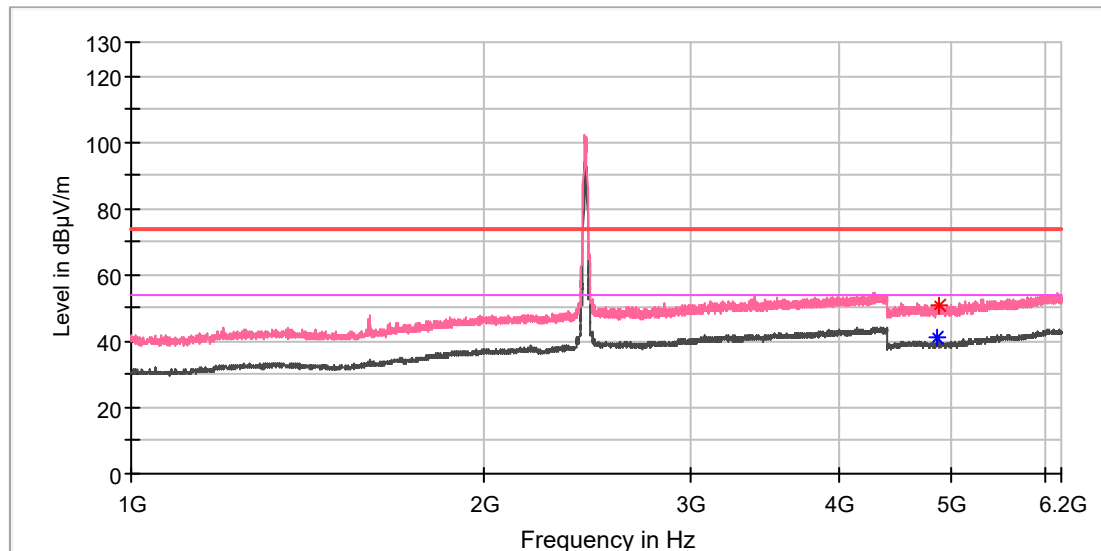
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4868.000000     | 50.78            | ---              | 74.00          | 23.22       | 150.0       | H   | 26.0          | 11.8         |
| 4872.000000     | ---              | 41.57            | 54.00          | 12.43       | 150.0       | H   | 26.0          | 11.8         |

## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11n20\_Ch6  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

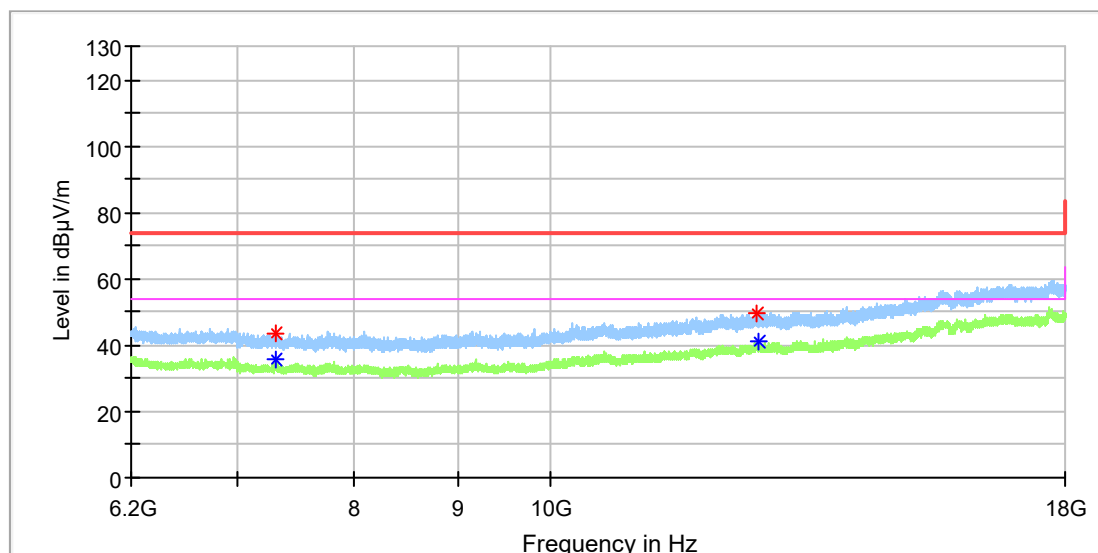
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4868.000000     | ---              | 40.92            | 54.00          | 13.08       | 150.0       | V   | 321.0         | 11.8         |
| 4875.000000     | 50.53            | ---              | 74.00          | 23.47       | 150.0       | V   | 220.0         | 11.8         |

## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11n20\_Ch6  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

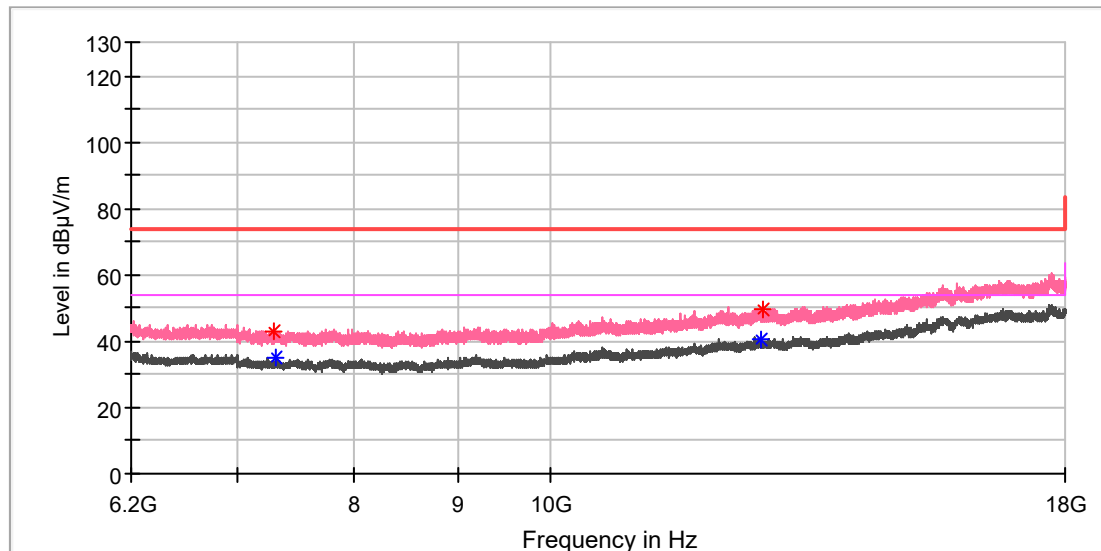
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7310.675000     | 43.64            | ---              | 74.00          | 30.36       | 150.0       | H   | 237.0         | 8.2          |
| 7310.675000     | ---              | 35.38            | 54.00          | 18.62       | 150.0       | H   | 237.0         | 8.2          |
| 12647.225000    | 49.61            | ---              | 74.00          | 24.39       | 150.0       | H   | 153.0         | 15.0         |
| 12675.250000    | ---              | 41.32            | 54.00          | 12.68       | 150.0       | H   | 165.0         | 15.1         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11n20\_Ch6  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7299.366667     | 42.78            | ---              | 74.00          | 31.22       | 150.0       | V   | 142.0         | 8.3          |
| 7310.183333     | ---              | 34.84            | 54.00          | 19.16       | 150.0       | V   | 287.0         | 8.2          |
| 12711.633333    | ---              | 40.80            | 54.00          | 13.20       | 150.0       | V   | 130.0         | 15.1         |
| 12755.391667    | 49.46            | ---              | 74.00          | 24.54       | 150.0       | V   | 357.0         | 15.2         |

## Final\_Result

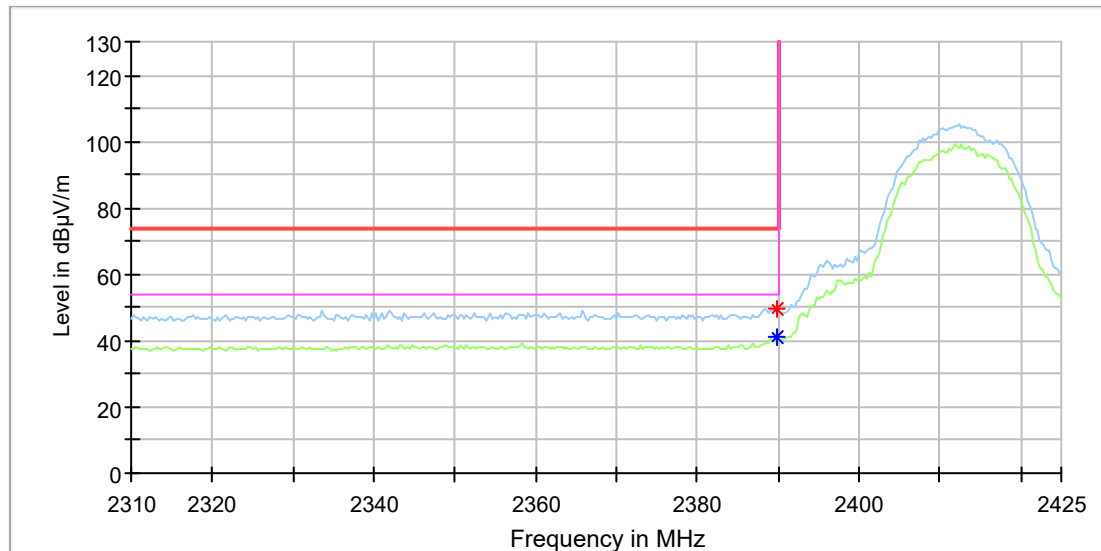
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## Appendix A.6: Test Results of Radiated Emissions in Restricted Bands

### Wi-Fi 802.11 b mode

### EUT Information

|                     |                          |
|---------------------|--------------------------|
| EUT Name:           | Home Communication Unit  |
| Model:              | HUB-300                  |
| Test Mode:          | WIFI 2.4G_11b_Ch1        |
| Order No/Sample No: | 168443071/A003550494-002 |
| Test Voltage:       | AC 120V/60Hz             |
| Remark:             | Temp 22 Humi:52%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



### Critical Freqs

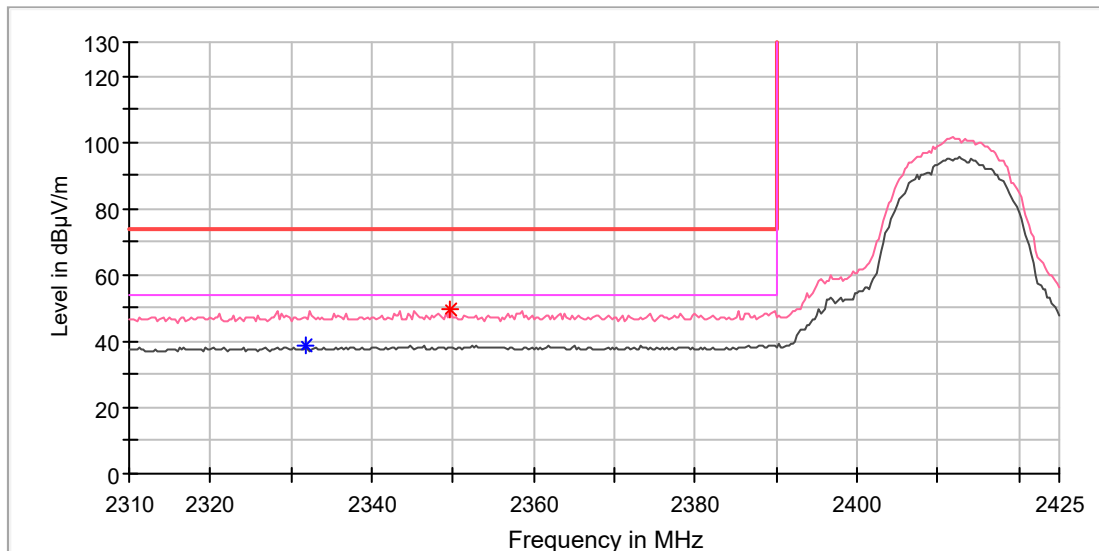
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2389.705882     | ---              | 40.87            | 54.00          | 13.13       | 150.0       | H   | 221.0         | 7.0          |
| 2389.705882     | 49.40            | ---              | 74.00          | 24.60       | 150.0       | H   | 221.0         | 7.0          |

### Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11b\_Ch1  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

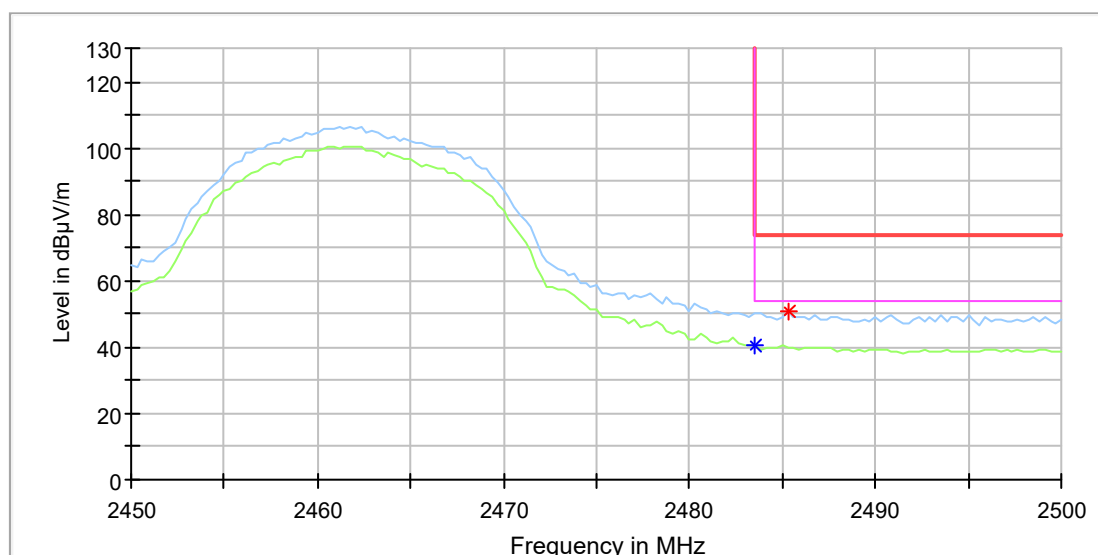
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2331.764706     | ---              | 38.62            | 54.00          | 15.38       | 150.0       | V   | 59.0          | 6.7          |
| 2349.705882     | 49.40            | ---              | 74.00          | 24.60       | 150.0       | V   | 92.0          | 6.9          |

## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11b\_Ch11  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

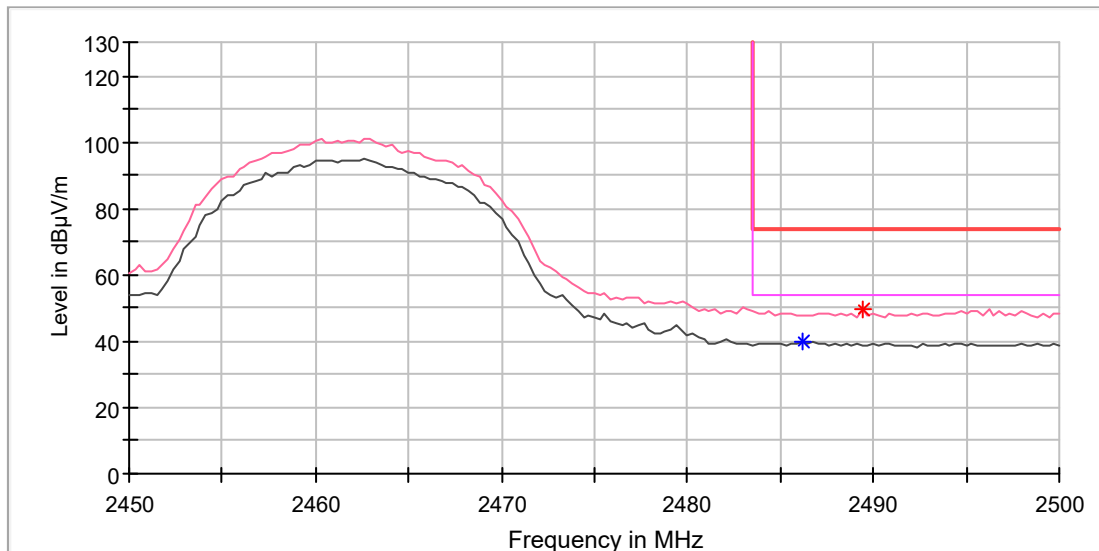
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2483.529412     | ---              | 40.29            | 54.00          | 13.71       | 150.0       | H   | 322.0         | 7.4          |
| 2485.294118     | 50.68            | ---              | 74.00          | 23.32       | 150.0       | H   | 329.0         | 7.4          |

## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11b\_Ch11  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2486.176471     | ---              | 40.11            | 54.00          | 13.89       | 150.0       | V   | 46.0          | 7.4          |
| 2489.411765     | 49.45            | ---              | 74.00          | 24.55       | 150.0       | V   | 106.0         | 7.4          |

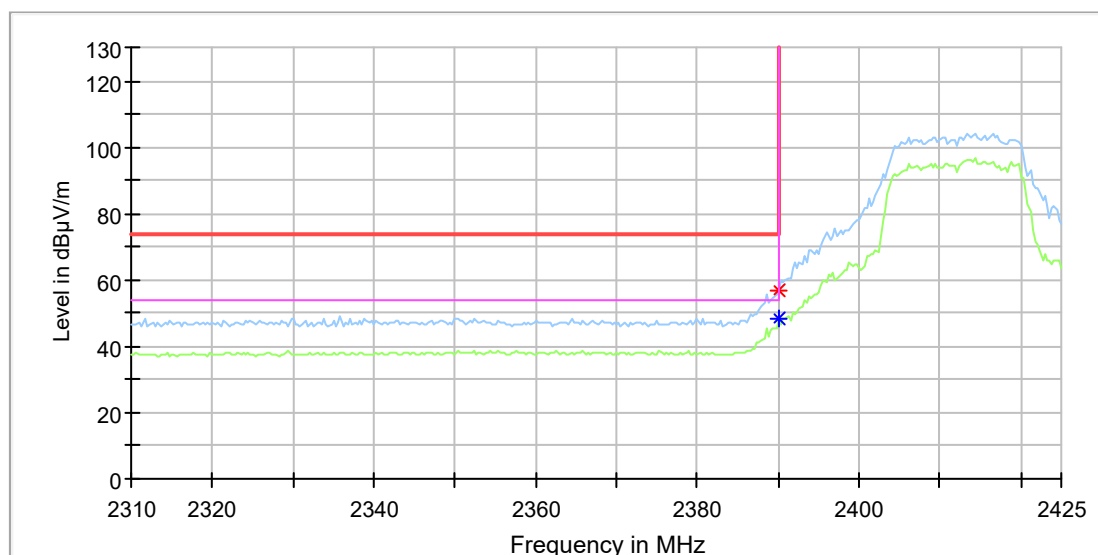
## Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## Wi-Fi 802.11 g mode

## EUT Information

|                     |                          |
|---------------------|--------------------------|
| EUT Name:           | Home Communication Unit  |
| Model:              | HUB-300                  |
| Test Mode:          | WIFI 2.4G_11g_Ch1        |
| Order No/Sample No: | 168443071/A003550494-002 |
| Test Voltage:       | AC 120V/60Hz             |
| Remark:             | Temp 22 Humi:52%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



## Critical Freqs

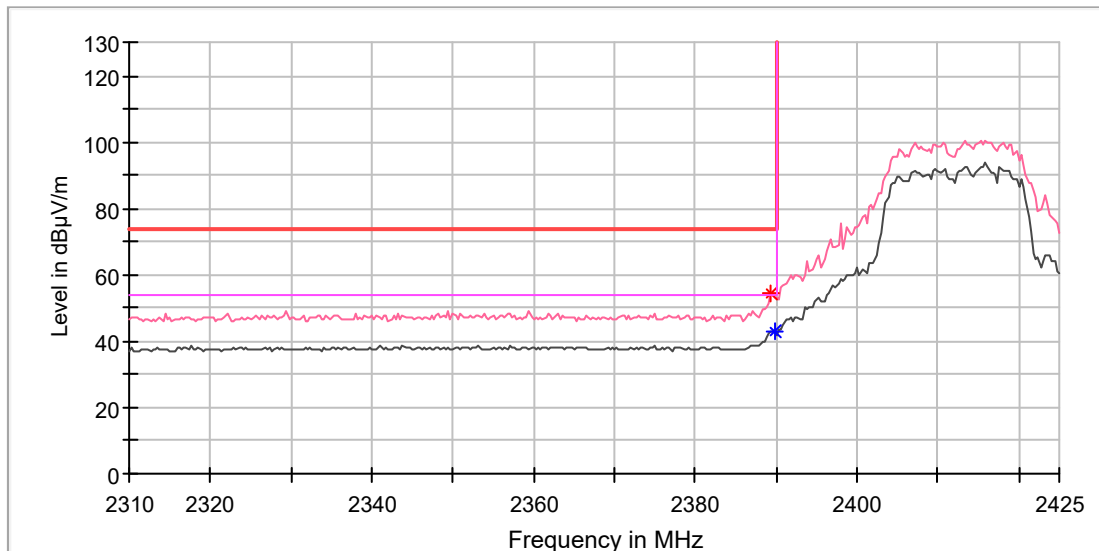
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2390.000000     | 56.67            | ---              | 74.00          | 17.33       | 150.0       | H   | 232.0         | 7.0          |
| 2390.000000     | ---              | 48.27            | 54.00          | 5.73        | 150.0       | H   | 232.0         | 7.0          |

## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11g\_Ch1  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

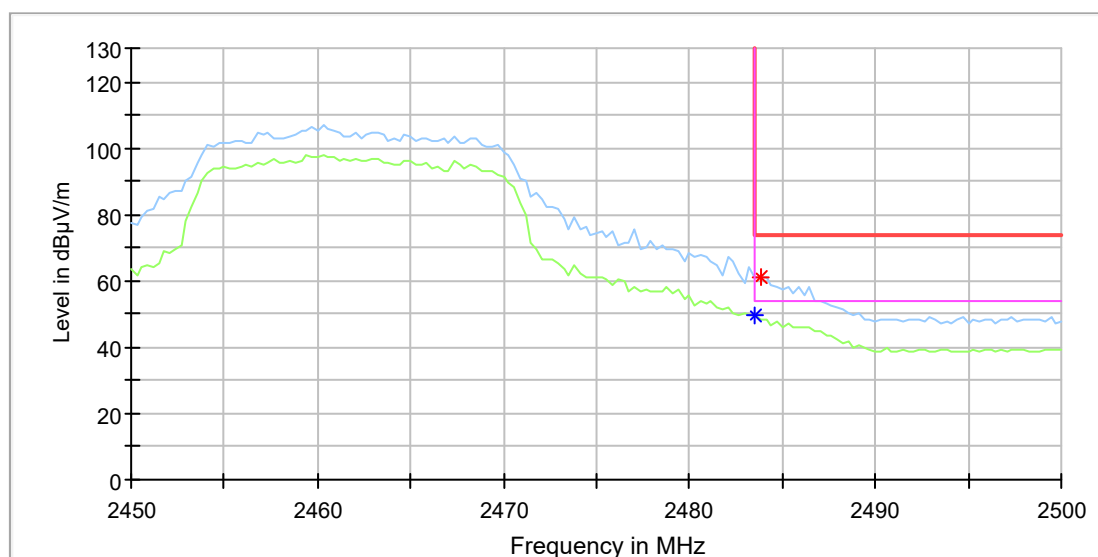
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2389.411765     | 54.46            | ---              | 74.00          | 19.54       | 150.0       | V   | 277.0         | 7.0          |
| 2389.705882     | ---              | 43.21            | 54.00          | 10.79       | 150.0       | V   | 254.0         | 7.0          |

## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

|                     |                          |
|---------------------|--------------------------|
| EUT Name:           | Home Communication Unit  |
| Model:              | HUB-300                  |
| Test Mode:          | WIFI 2.4G_11g_Ch11       |
| Order No/Sample No: | 168443071/A003550494-002 |
| Test Voltage:       | AC 120V/60Hz             |
| Remark:             | Temp 22 Humi:52%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



## Critical Freqs

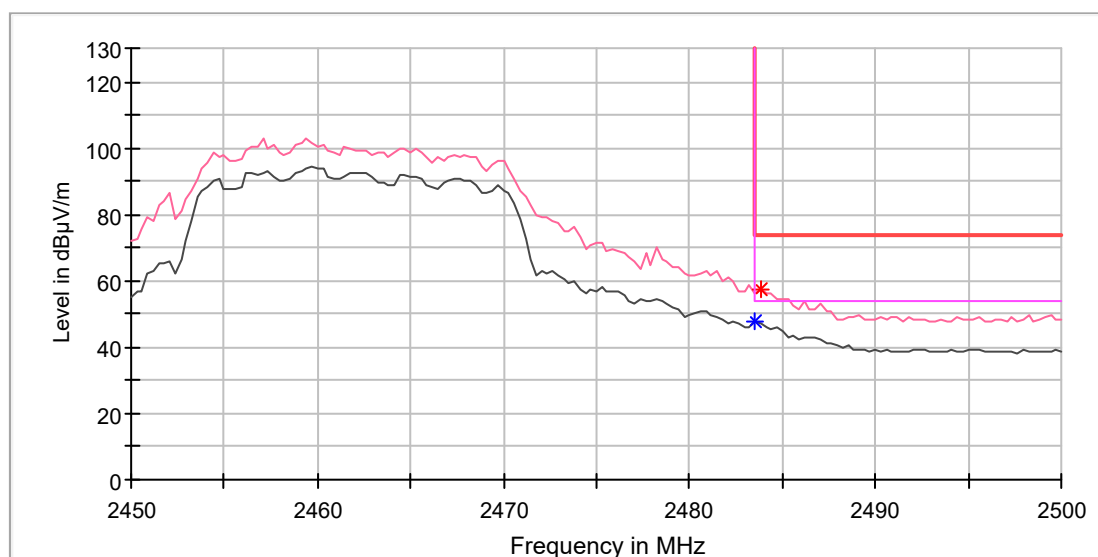
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2483.529412     | ---              | 49.44            | 54.00          | 4.56        | 150.0       | H   | 328.0         | 7.4          |
| 2483.823529     | 61.01            | ---              | 74.00          | 12.99       | 150.0       | H   | 212.0         | 7.4          |

## Final Result

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
 Model: HUB-300  
 Test Mode: WIFI 2.4G\_11g\_Ch11  
 Order No/Sample No: 168443071/A003550494-002  
 Test Voltage: AC 120V/60Hz  
 Remark: Temp 22 Humi:52%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



## Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2483.529412     | ---              | 47.51            | 54.00          | 6.49        | 150.0       | V   | 139.0         | 7.4          |
| 2483.823529     | 57.67            | ---              | 74.00          | 16.33       | 150.0       | V   | 139.0         | 7.4          |

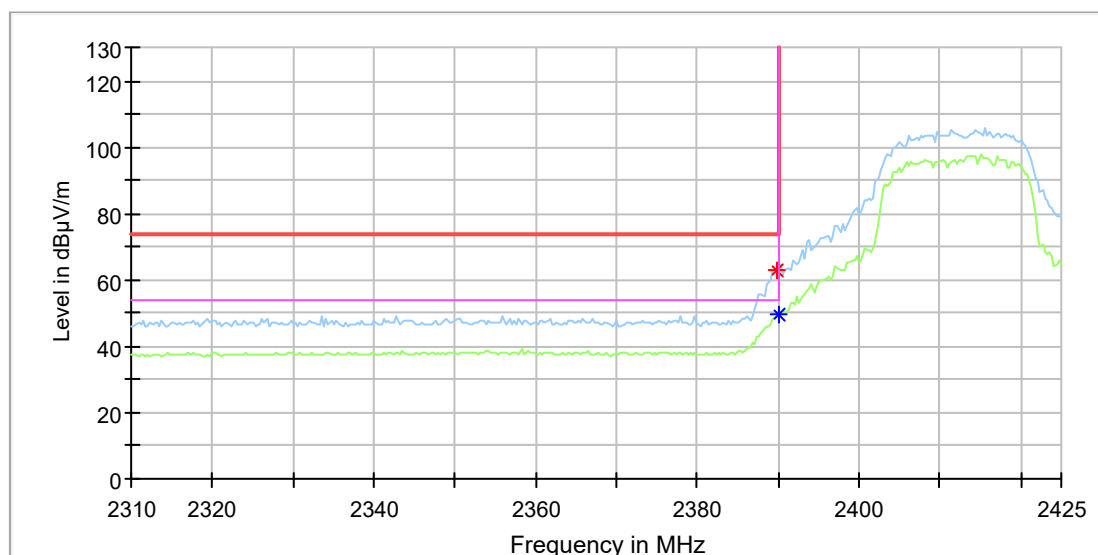
## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## Wi-Fi 802.11 n(HT20) mode

## EUT Information

|                     |                          |
|---------------------|--------------------------|
| EUT Name:           | Home Communication Unit  |
| Model:              | HUB-300                  |
| Test Mode:          | WIFI 2.4G_11n20_Ch1      |
| Order No/Sample No: | 168443071/A003550494-002 |
| Test Voltage:       | AC 120V/60Hz             |
| Remark:             | Temp 22 Humi:52%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



## Critical\_Freqs

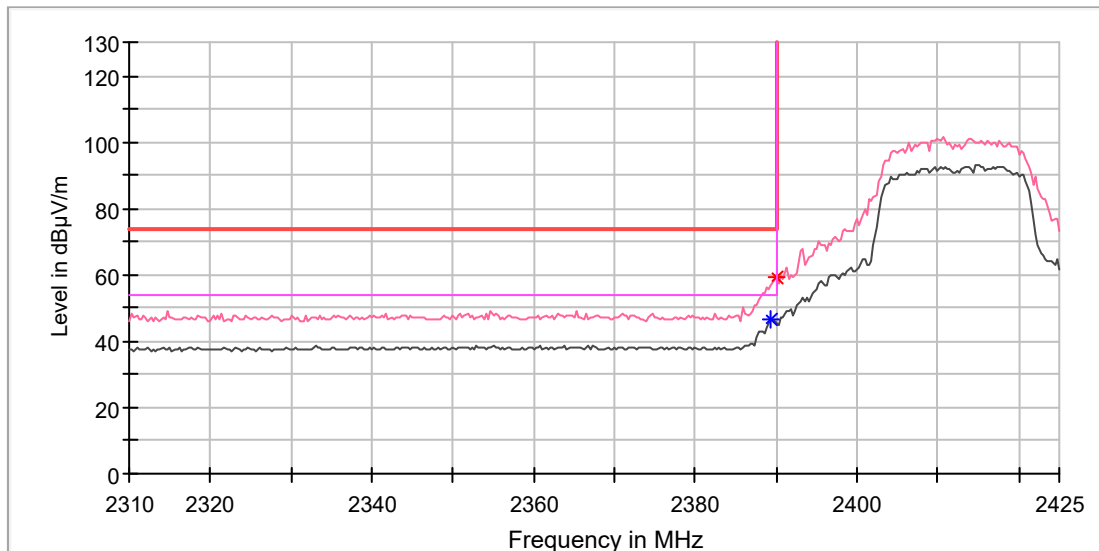
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2389.705882     | 62.82            | ---              | 74.00          | 11.18       | 150.0       | H   | 193.0         | 7.0          |
| 2390.000000     | ---              | 49.48            | 54.00          | 4.52        | 150.0       | H   | 0.0           | 7.0          |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: WIFI 2.4G\_11n20\_Ch1  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 22 Humi:52%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

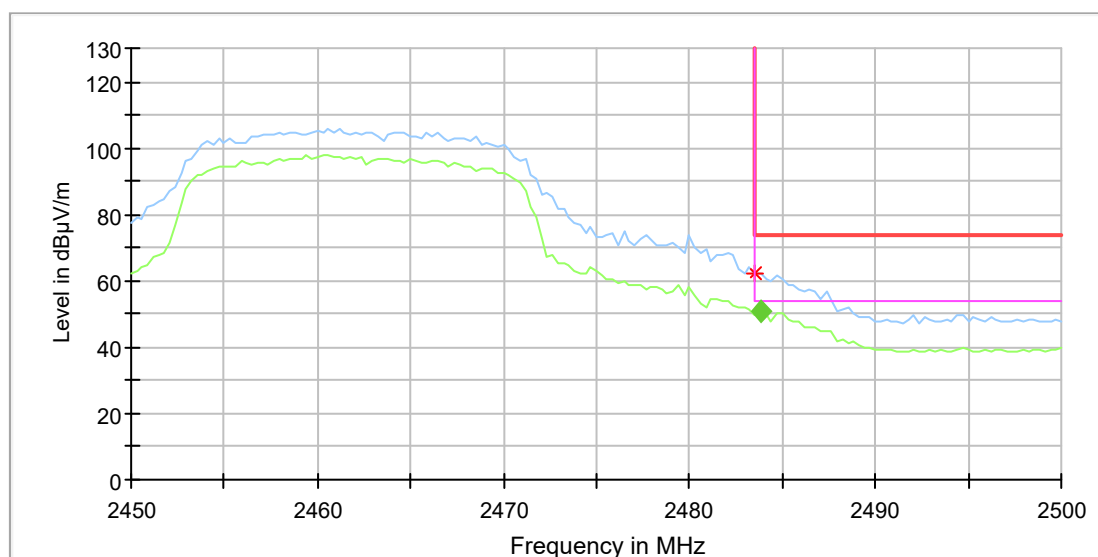
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2389.411765     | ---              | 46.36            | 54.00          | 7.64        | 150.0       | V   | 283.0         | 7.0          |
| 2390.000000     | 59.42            | ---              | 74.00          | 14.58       | 150.0       | V   | 253.0         | 7.0          |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: Home Communication Unit  
 Model: HUB-300  
 Test Mode: WIFI 2.4G\_11n20\_Ch11  
 Order No/Sample No: 168443071/A003550494-002  
 Test Voltage: AC 120V/60Hz  
 Remark: Temp 22 Humi:52%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



## Critical Freqs

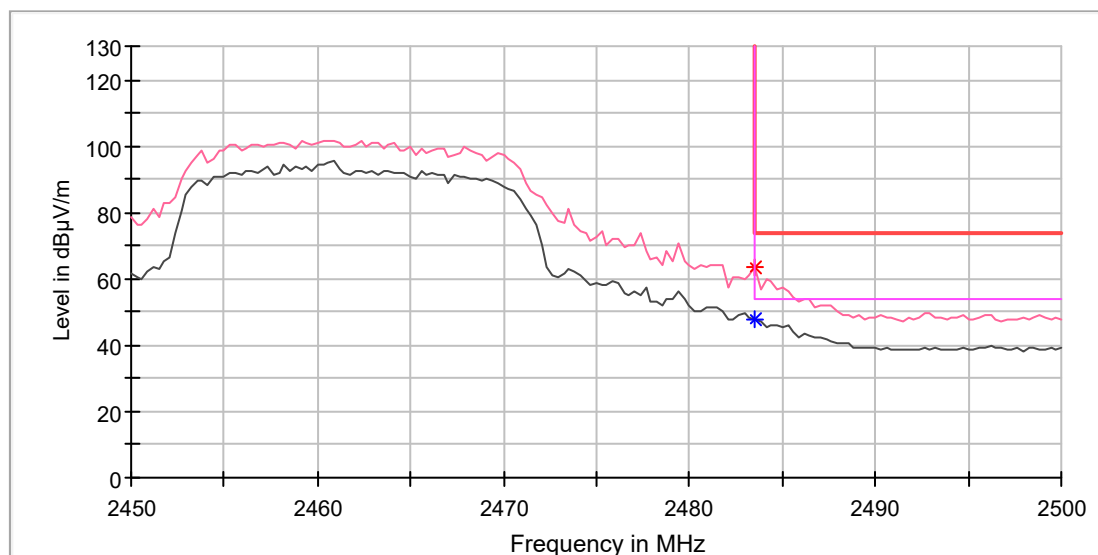
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2483.529412     | 62.33            | ---              | 74.00          | 11.67       | 150.0       | H   | 230.0         | 7.4          |

## Final Result

| Frequency (MHz) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2483.823529     | 50.74            | 54.00          | 3.26        | 148.0       | H   | 232.0         | 7.4          |

## EUT Information

EUT Name: Home Communication Unit  
 Model: HUB-300  
 Test Mode: WIFI 2.4G\_11n20\_Ch11  
 Order No/Sample No: 168443071/A003550494-002  
 Test Voltage: AC 120V/60Hz  
 Remark: Temp 22 Humi:52%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2483.529412     | 63.31            | ---              | 74.00          | 10.69       | 150.0       | V   | 139.0         | 7.4          |
| 2483.529412     | ---              | 47.82            | 54.00          | 6.18        | 150.0       | V   | 139.0         | 7.4          |

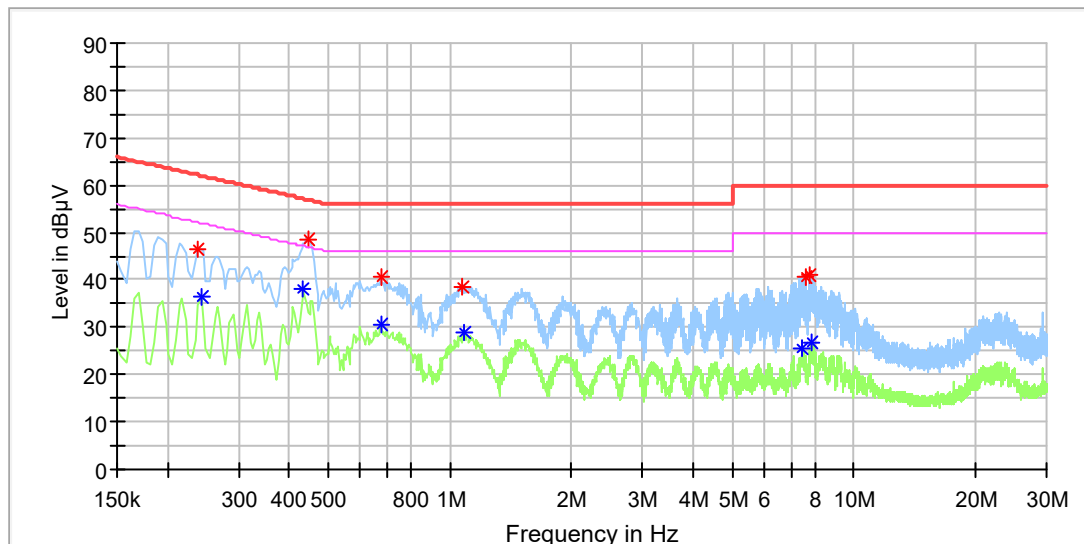
## Final\_Result

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## Appendix A.7: Test Results of Conducted Emission on AC Mains

### EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: 915MHz  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 24 Humi:50%  
Test Standard: FCC 15.207  
Tested By: Kei Zhang  
Reviewed By: Terry Yin

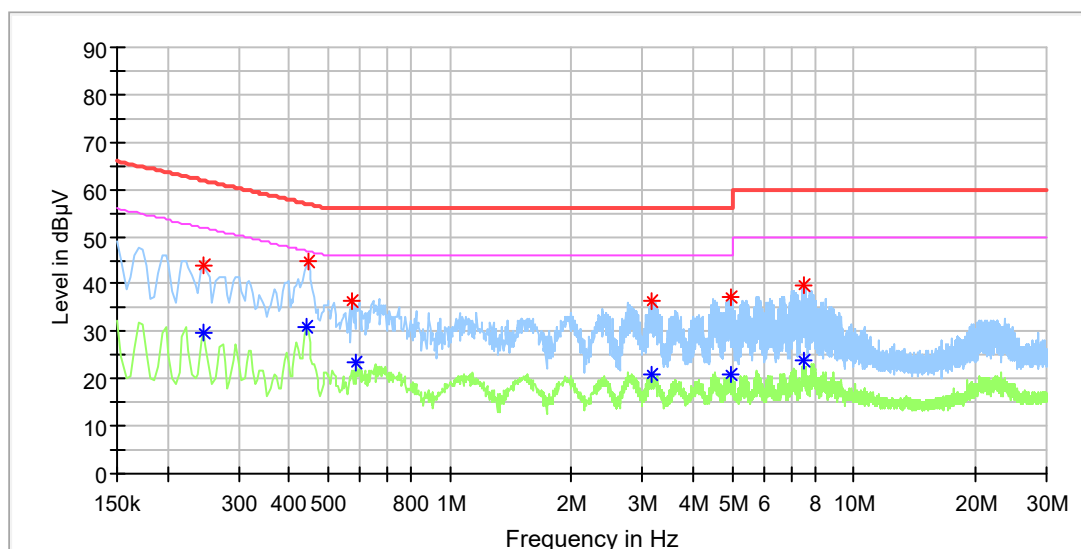


### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|------|------------|
| 0.238000        | 46.33          | ---            | 62.17        | 15.83       | L1   | 9.8        |
| 0.242000        | ---            | 36.58          | 52.03        | 15.45       | L1   | 9.8        |
| 0.434000        | ---            | 38.26          | 47.18        | 8.91        | L1   | 9.9        |
| 0.446000        | 48.67          | ---            | 56.95        | 8.28        | L1   | 9.9        |
| 0.676000        | ---            | 30.59          | 46.00        | 15.41       | L1   | 9.8        |
| 0.676000        | 40.54          | ---            | 56.00        | 15.46       | L1   | 9.8        |
| 1.080000        | 38.37          | ---            | 56.00        | 17.63       | L1   | 9.7        |
| 1.092000        | ---            | 28.80          | 46.00        | 17.20       | L1   | 9.7        |
| 7.456000        | ---            | 25.60          | 50.00        | 24.40       | L1   | 9.9        |
| 7.568000        | 40.42          | ---            | 60.00        | 19.58       | L1   | 9.9        |
| 7.804000        | 40.84          | ---            | 60.00        | 19.16       | L1   | 9.9        |
| 7.892000        | ---            | 26.73          | 50.00        | 23.27       | L1   | 9.9        |

## EUT Information

EUT Name: Home Communication Unit  
Model: HUB-300  
Test Mode: 915MHz  
Order No/Sample No: 168443071/A003550494-002  
Test Voltage: AC 120V/60Hz  
Remark: Temp 24 Humi:50%  
Test Standard: FCC 15.207  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|------|------------|
| 0.246000        | ---            | 29.62          | 51.89        | 22.27       | N    | 9.7        |
| 0.246000        | 44.09          | ---            | 61.89        | 17.81       | N    | 9.7        |
| 0.442000        | ---            | 31.15          | 47.02        | 15.88       | N    | 9.7        |
| 0.446000        | 44.64          | ---            | 56.95        | 12.31       | N    | 9.7        |
| 0.572000        | 36.40          | ---            | 56.00        | 19.60       | N    | 9.7        |
| 0.588000        | ---            | 23.63          | 46.00        | 22.37       | N    | 9.7        |
| 3.156000        | 36.56          | ---            | 56.00        | 19.44       | N    | 10.0       |
| 3.164000        | ---            | 20.84          | 46.00        | 25.16       | N    | 10.0       |
| 4.936000        | ---            | 21.07          | 46.00        | 24.93       | N    | 10.0       |
| 4.964000        | 37.20          | ---            | 56.00        | 18.80       | N    | 10.0       |
| 7.520000        | ---            | 23.97          | 50.00        | 26.03       | N    | 9.9        |
| 7.556000        | 39.63          | ---            | 60.00        | 20.37       | N    | 10.0       |