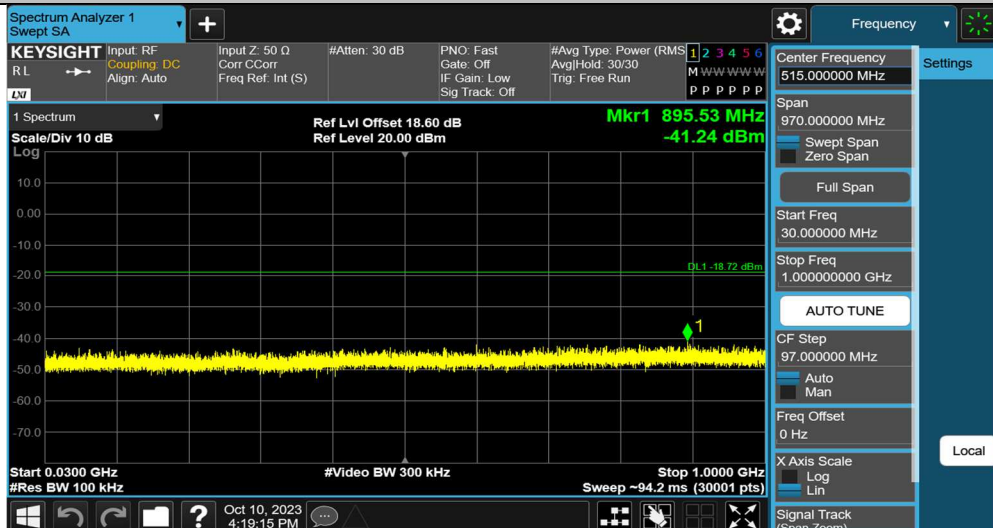


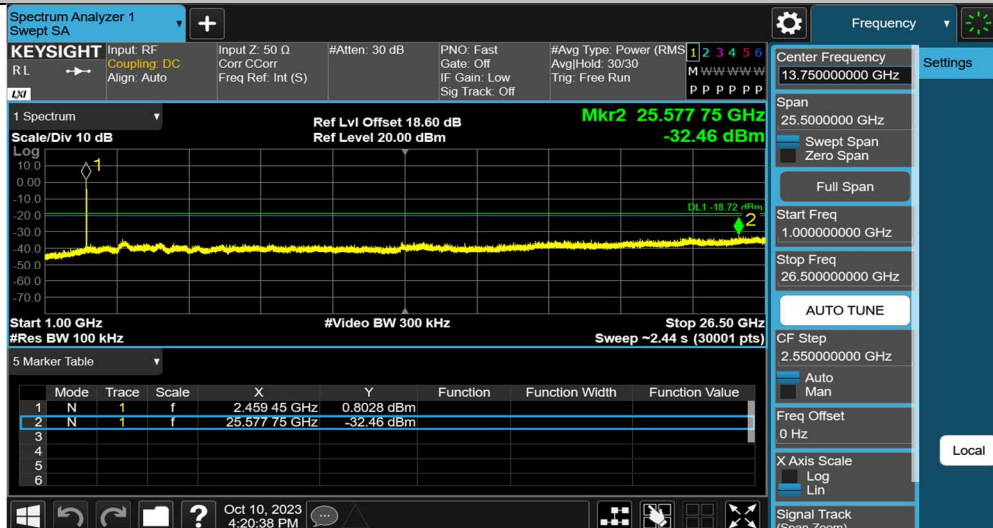
### 11N20SISO\_Ant1\_2462\_0~Reference



### 11N20SISO\_Ant1\_2462\_30~1000



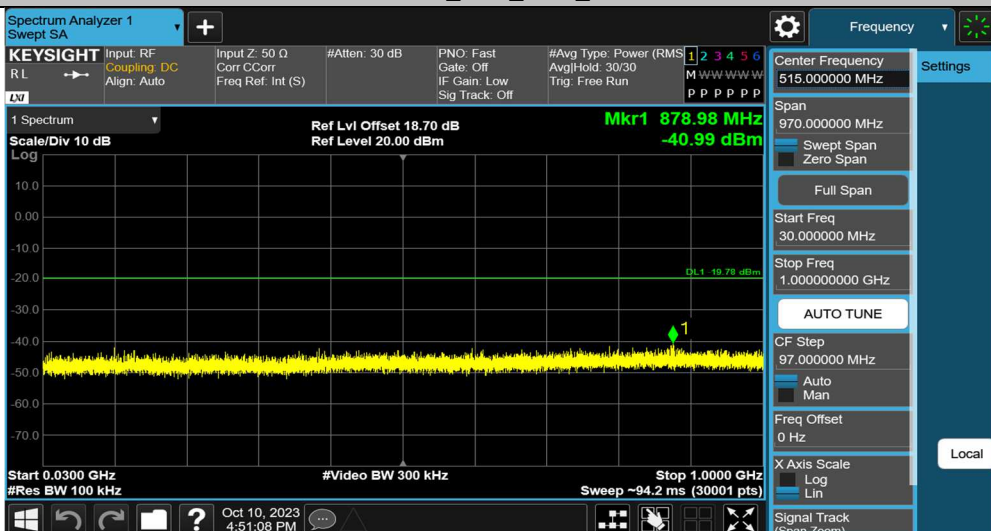
### 11N20SISO\_Ant1\_2462\_1000~26500



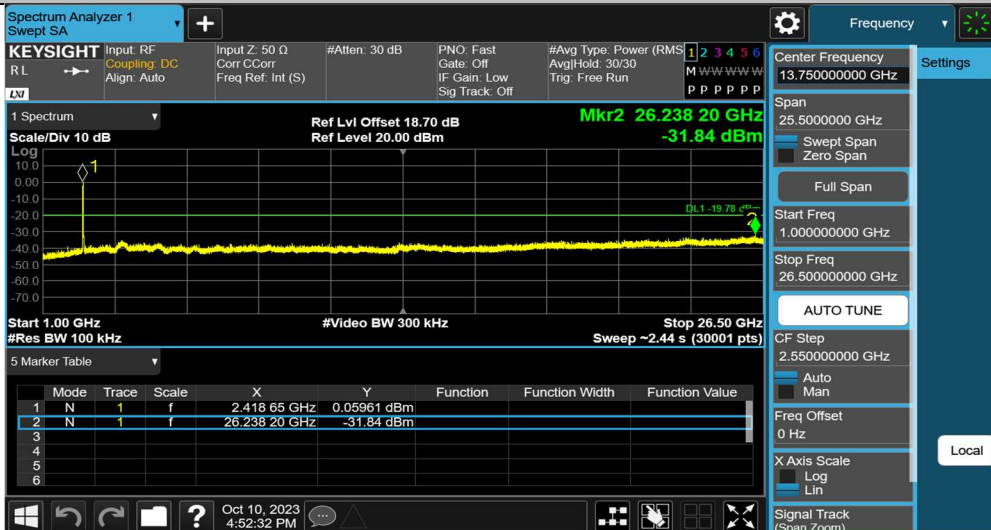
### 11N40SISO\_Ant1\_2422\_0~Reference



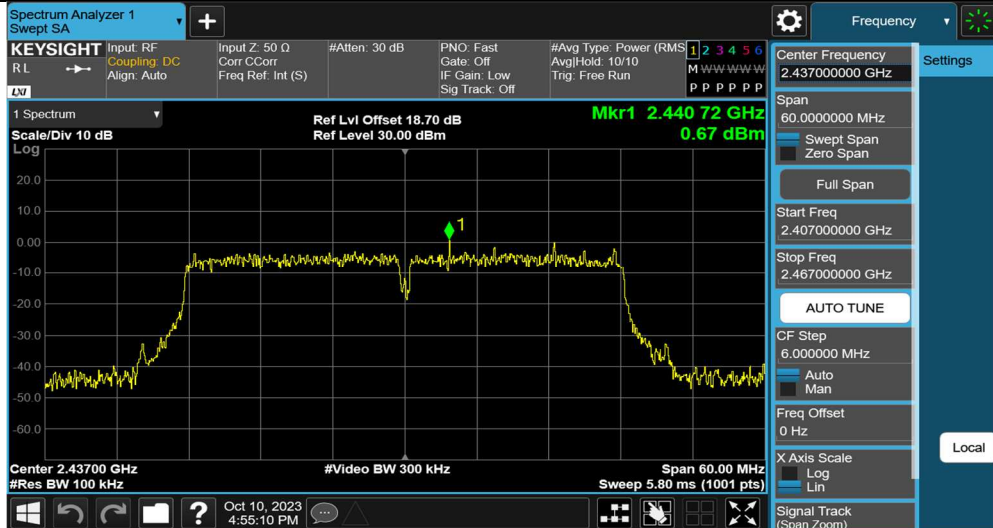
### 11N40SISO\_Ant1\_2422\_30~1000



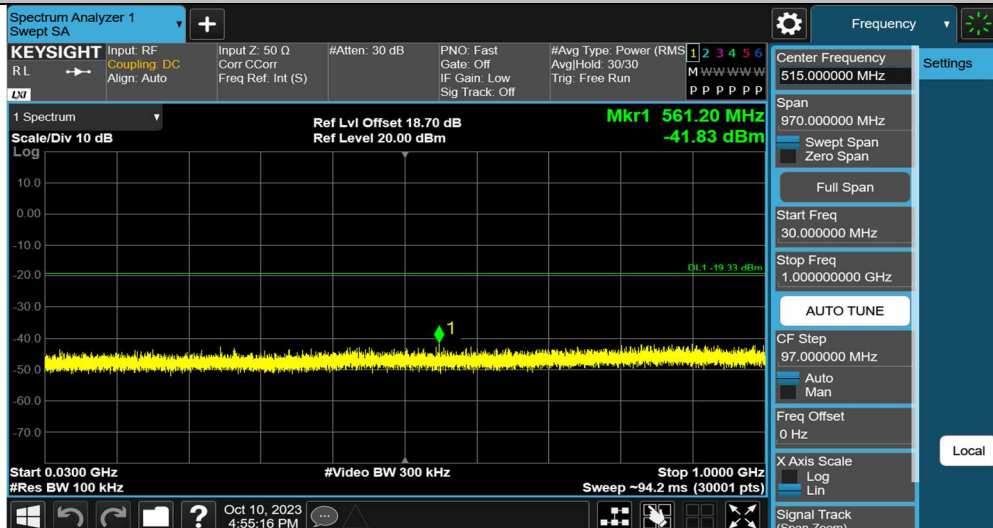
### 11N40SISO\_Ant1\_2422\_1000~26500



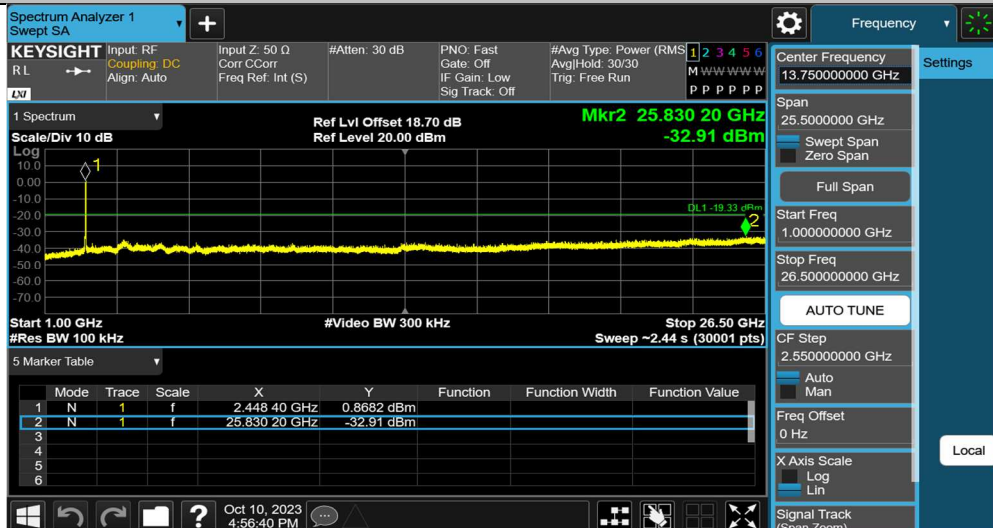
11N40SISO\_Ant1\_2437\_0~Reference



11N40SISO\_Ant1\_2437\_30~1000



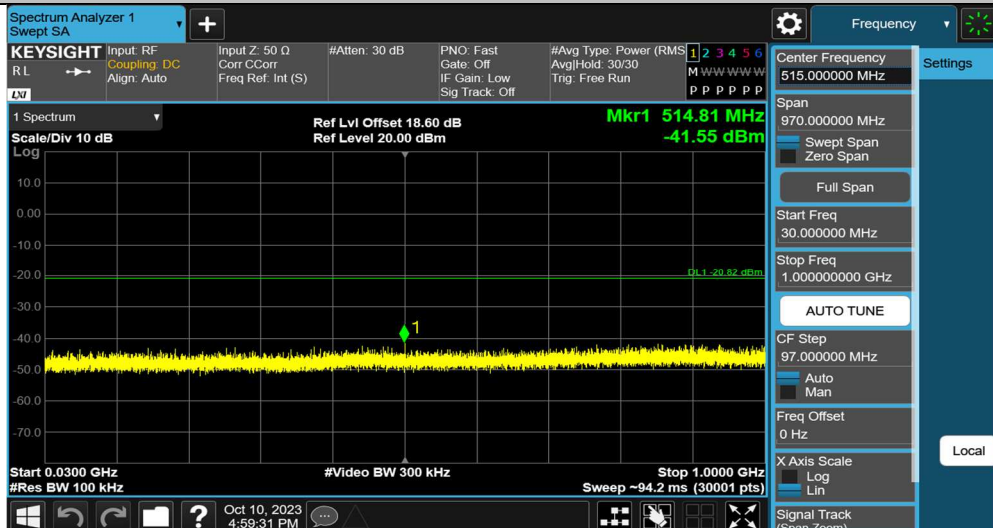
11N40SISO\_Ant1\_2437\_1000~26500



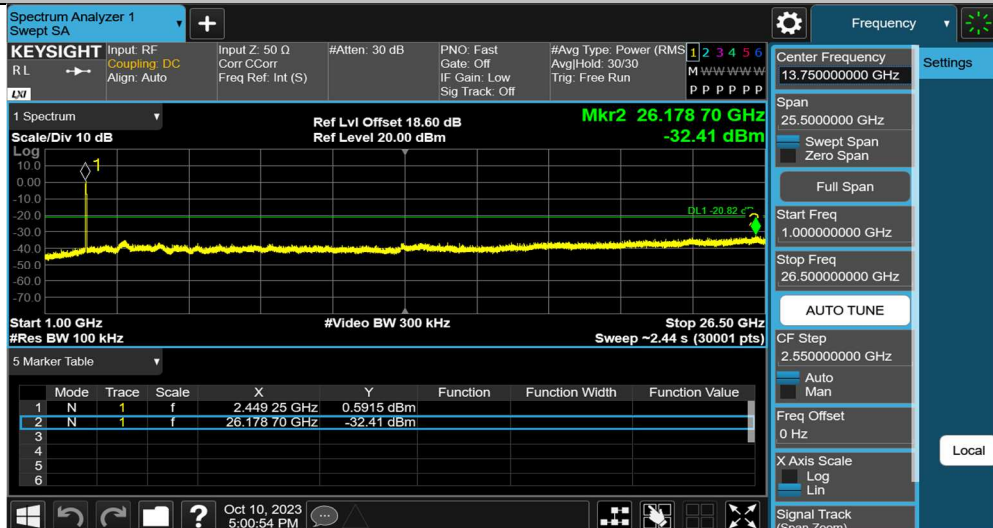
11N40SISO\_Ant1\_2452\_0~Reference



11N40SISO\_Ant1\_2452\_30~1000



11N40SISO\_Ant1\_2452\_1000~26500



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

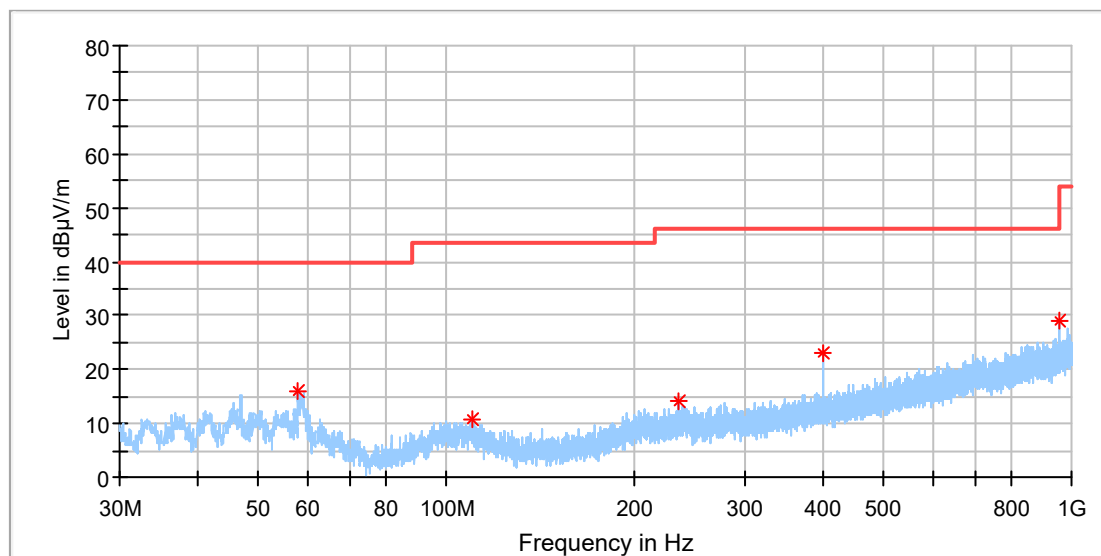
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

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

## EUT Information

|                     |                          |
|---------------------|--------------------------|
| EUT Name:           | Robotic Vacuum Cleaner   |
| Model:              | QR1PES                   |
| Test Mode:          | WIFI 2.4G_11b_Ch6        |
| Order No/Sample No: | 168442340/A003571500-001 |
| Test Voltage:       | Battery                  |
| Remark:             | Temp 22 Humi:55%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



## Critical Freqs

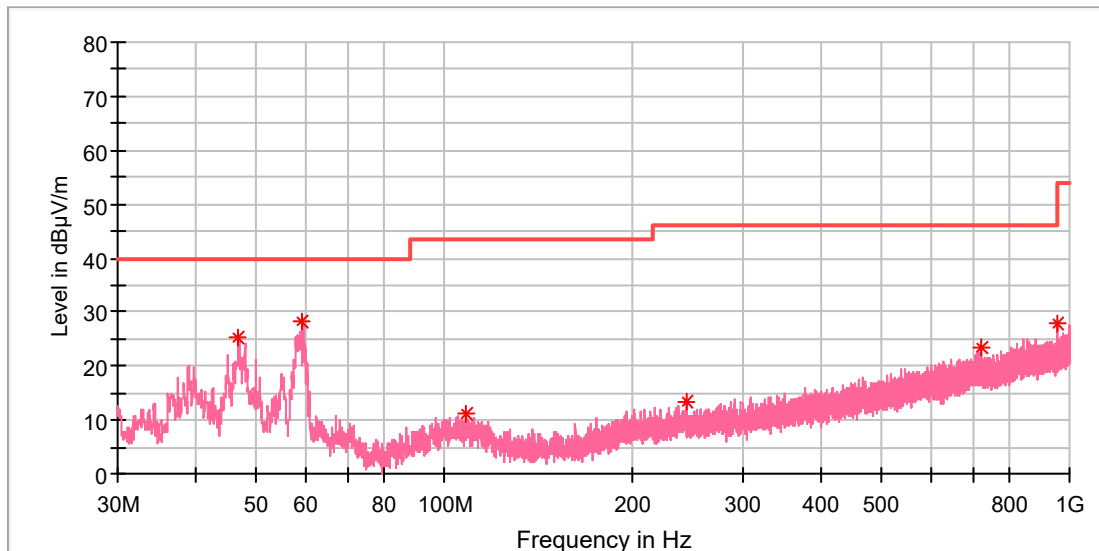
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 57.980769       | 16.09            | 40.00          | 23.91       | 100.0       | H   | 0.0           | -19.1        |
| 109.838462      | 10.81            | 43.50          | 32.69       | 100.0       | H   | 231.0         | -19.4        |
| 234.781923      | 13.96            | 46.00          | 32.04       | 100.0       | H   | 287.0         | -18.2        |
| 399.980385      | 23.13            | 46.00          | 22.87       | 100.0       | H   | 67.0          | -14.1        |
| 960.006154      | 28.86            | 54.00          | 25.14       | 100.0       | H   | 117.0         | -4.7         |

## Final Result

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

## EUT Information

|                     |                          |
|---------------------|--------------------------|
| EUT Name:           | Robotic Vacuum Cleaner   |
| Model:              | QR1PES                   |
| Test Mode:          | WIFI 2.4G_11b_Ch6        |
| Order No/Sample No: | 168442340/A003571500-001 |
| Test Voltage:       | Battery                  |
| Remark:             | Temp 22 Humi:55%         |
| 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) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 46.863077       | 25.42            | 40.00          | 14.58       | 100.0       | V   | 195.0         | -18.9        |
| 59.361154       | 28.13            | 40.00          | 11.87       | 100.0       | V   | 18.0          | -19.2        |
| 108.719231      | 11.18            | 43.50          | 32.32       | 100.0       | V   | 327.0         | -19.3        |
| 243.549231      | 13.58            | 46.00          | 32.42       | 100.0       | V   | 249.0         | -17.9        |
| 723.699231      | 23.32            | 46.00          | 22.68       | 100.0       | V   | 47.0          | -8.0         |
| 960.006154      | 27.77            | 54.00          | 26.23       | 100.0       | V   | 137.0         | -4.7         |

## Final Result

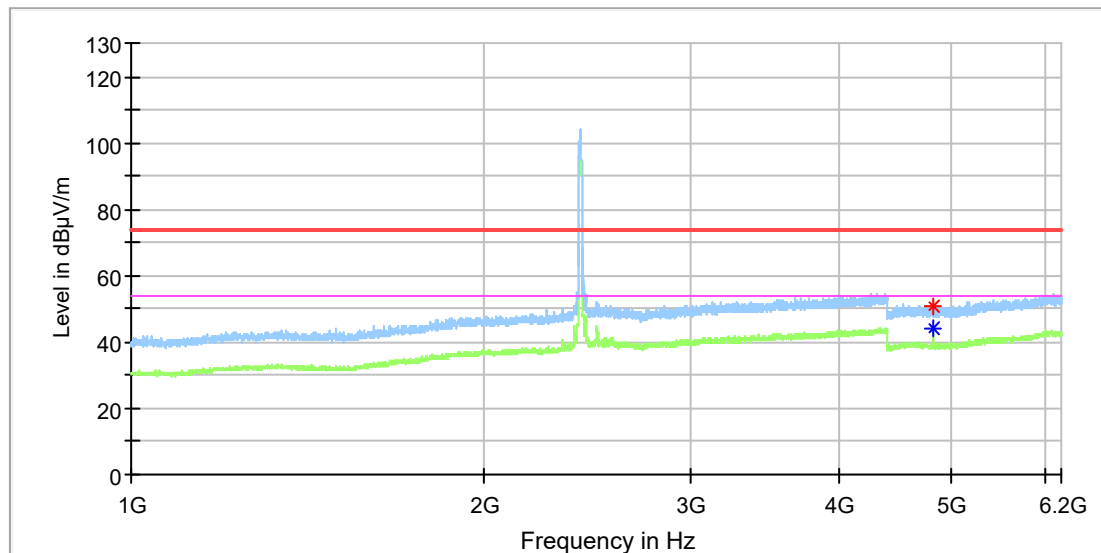
| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|--------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---                | ---          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

## 1GHz - 18GHz

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

## EUT Information

|                     |                          |
|---------------------|--------------------------|
| EUT Name:           | Robotic Vacuum Cleaner   |
| Model:              | QR1PES                   |
| Test Mode:          | WIFI 2.4G_11b_Ch1        |
| Order No/Sample No: | 168442340/A003571500-001 |
| Test Voltage:       | Battery                  |
| Remark:             | Temp 22 Humi:55%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



## Critical\_Freqs

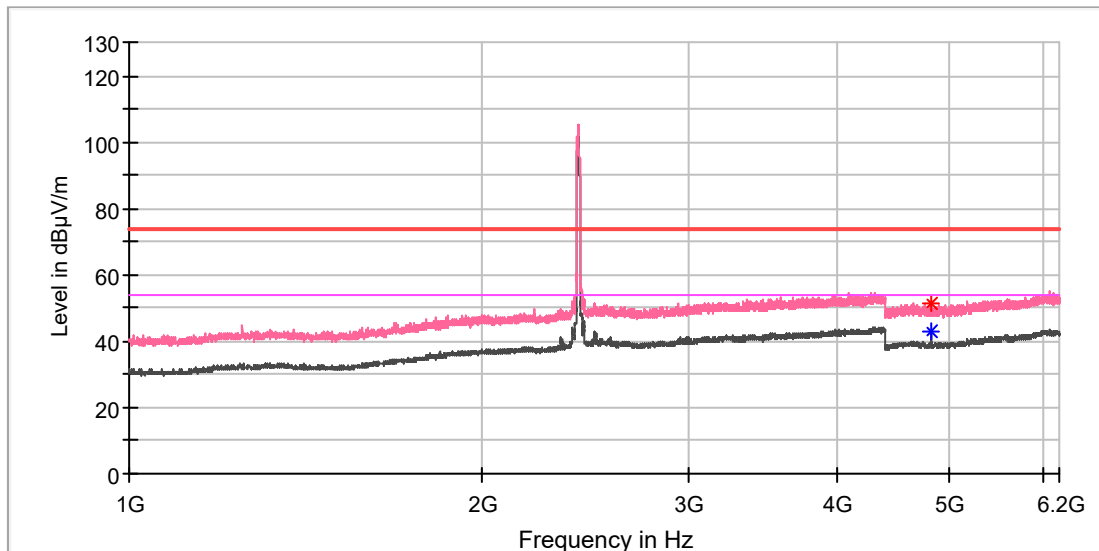
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4815.500000     | 50.79            | ---              | 74.00          | 23.21       | 150.0       | H   | 278.0         | 11.8         |
| 4824.000000     | ---              | 44.18            | 54.00          | 9.82        | 150.0       | H   | 195.0         | 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: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11b\_Ch1  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

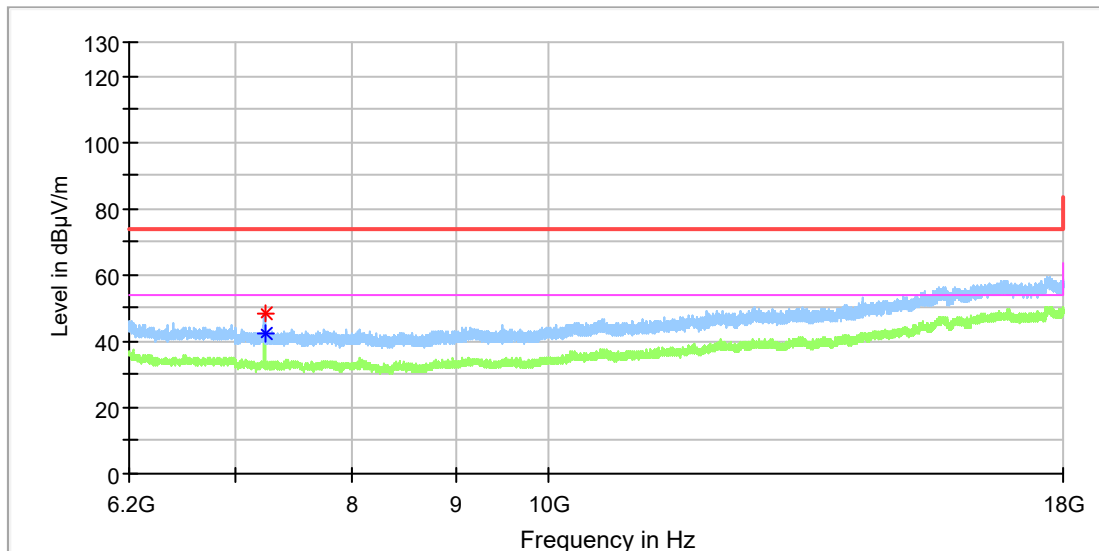
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4824.000000     | 51.63            | ---              | 74.00          | 22.37       | 150.0       | V   | 142.0         | 11.8         |
| 4824.000000     | ---              | 42.63            | 54.00          | 11.37       | 150.0       | V   | 142.0         | 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:           | Robotic Vacuum Cleaner   |
| Model:              | QR1PES                   |
| Test Mode:          | WIFI 2.4G_11b_Ch1        |
| Order No/Sample No: | 168442340/A003571500-001 |
| Test Voltage:       | Battery                  |
| Remark:             | Temp 22 Humi:55%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



## Critical Freqs

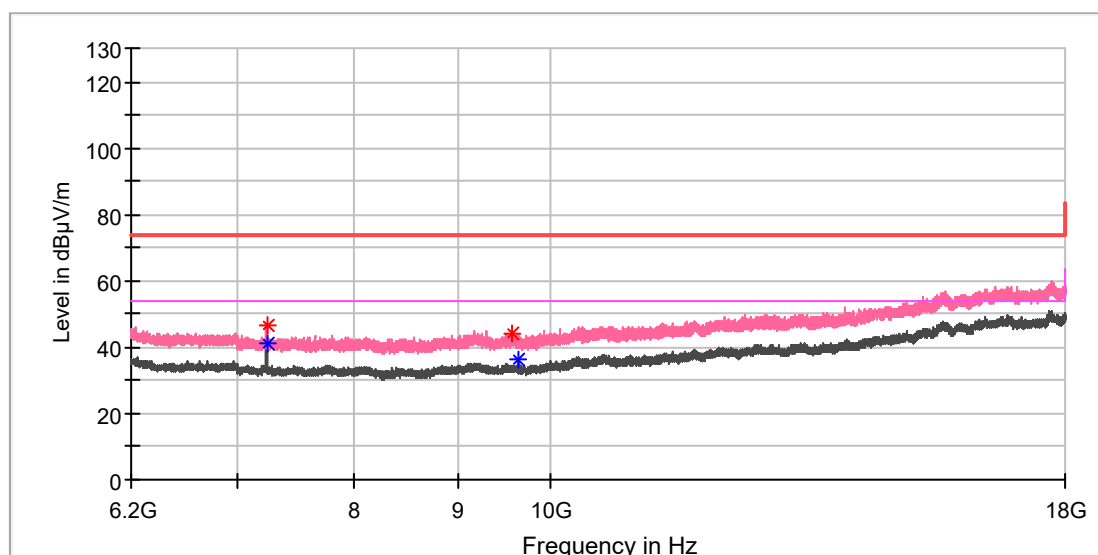
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7235.941667     | 48.12            | ---              | 74.00          | 25.88       | 150.0       | H   | 32.0          | 8.6          |
| 7236.925000     | ---              | 42.48            | 54.00          | 11.52       | 150.0       | H   | 32.0          | 8.6          |

## Final Result

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

## EUT Information

EUT Name: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11b\_Ch1  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

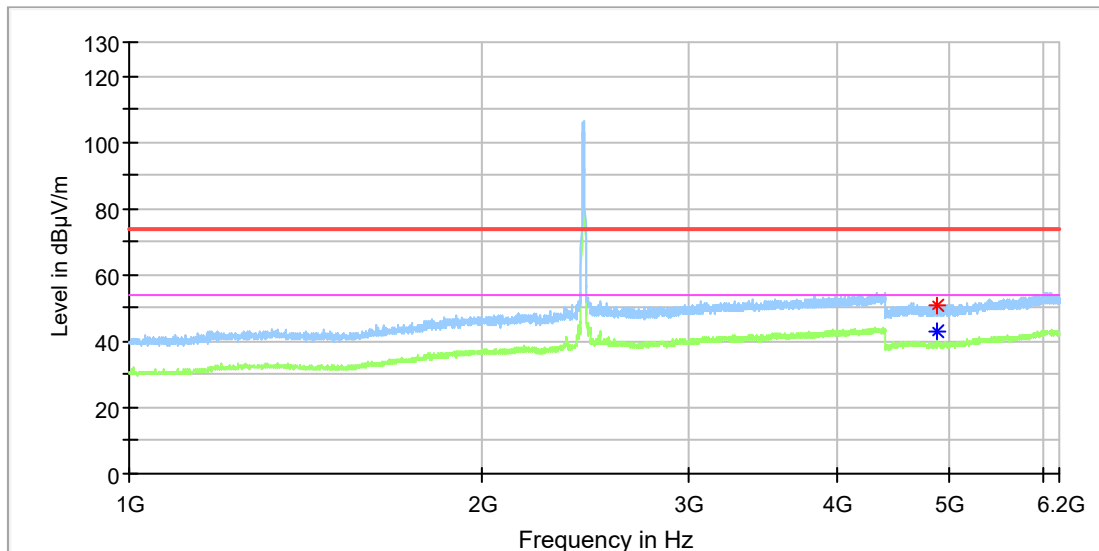
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7235.450000     | 46.46            | ---              | 74.00          | 27.54       | 150.0       | V   | 338.0         | 8.6          |
| 7236.925000     | ---              | 40.98            | 54.00          | 13.02       | 150.0       | V   | 72.0          | 8.6          |
| 9580.208333     | 43.90            | ---              | 74.00          | 30.10       | 150.0       | V   | 202.0         | 10.3         |
| 9647.566667     | ---              | 36.03            | 54.00          | 17.97       | 150.0       | V   | 36.0          | 10.4         |

## Final\_Result

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

## EUT Information

EUT Name: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11b\_Ch6  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

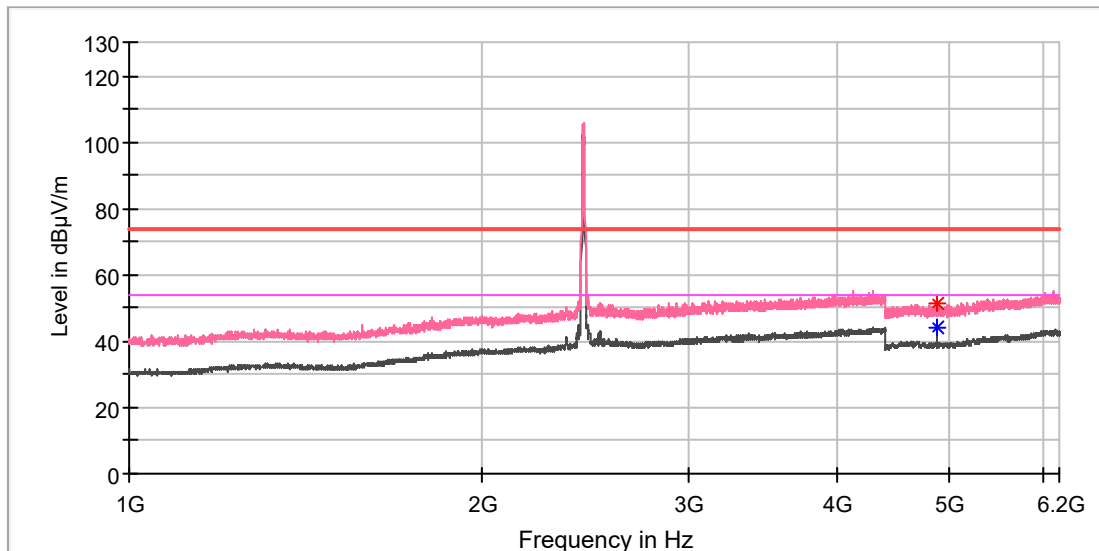
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4873.500000     | 50.58            | ---              | 74.00          | 23.42       | 150.0       | H   | 77.0          | 11.8         |
| 4874.000000     | ---              | 42.86            | 54.00          | 11.14       | 150.0       | H   | 156.0         | 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: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11b\_Ch6  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

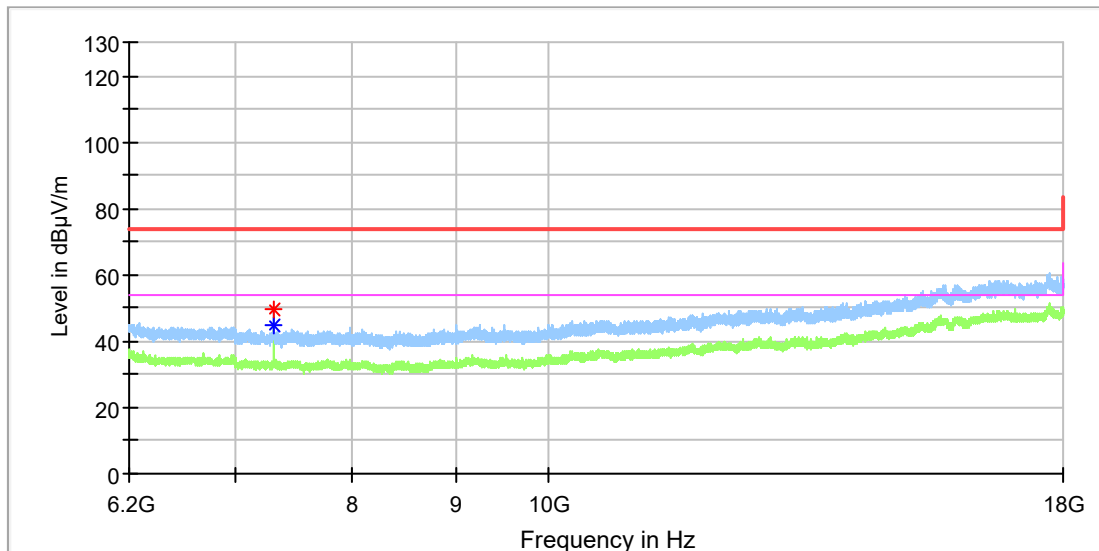
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4874.000000     | 51.55            | ---              | 74.00          | 22.45       | 150.0       | V   | 350.0         | 11.8         |
| 4874.000000     | ---              | 43.98            | 54.00          | 10.02       | 150.0       | V   | 350.0         | 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: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11b\_Ch6  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

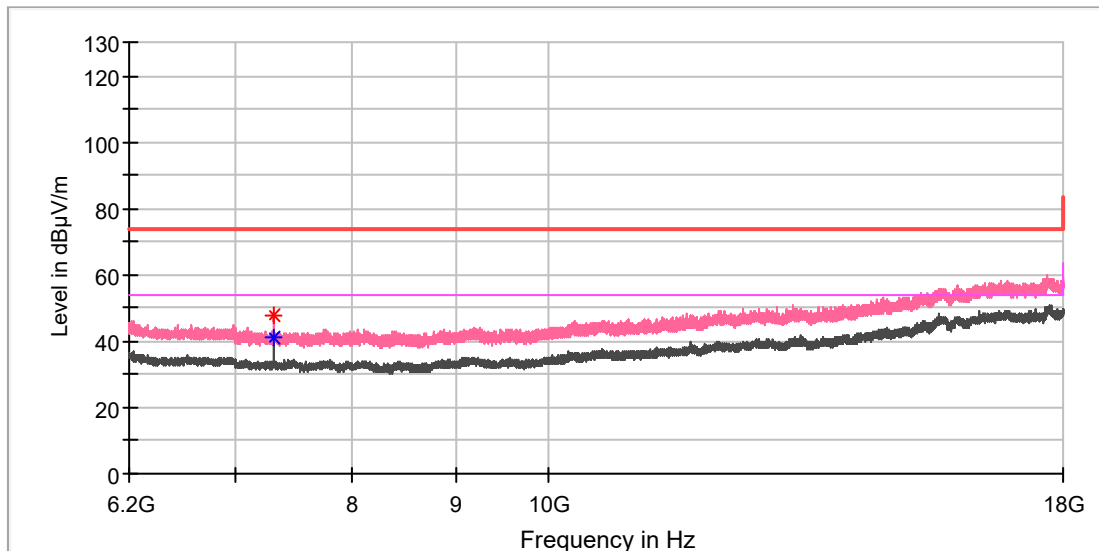
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7310.183333     | ---              | 44.50            | 54.00          | 9.50        | 150.0       | H   | 25.0          | 8.2          |
| 7310.675000     | 49.71            | ---              | 74.00          | 24.29       | 150.0       | H   | 25.0          | 8.2          |

## Final Result

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

## EUT Information

EUT Name: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11b\_Ch6  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

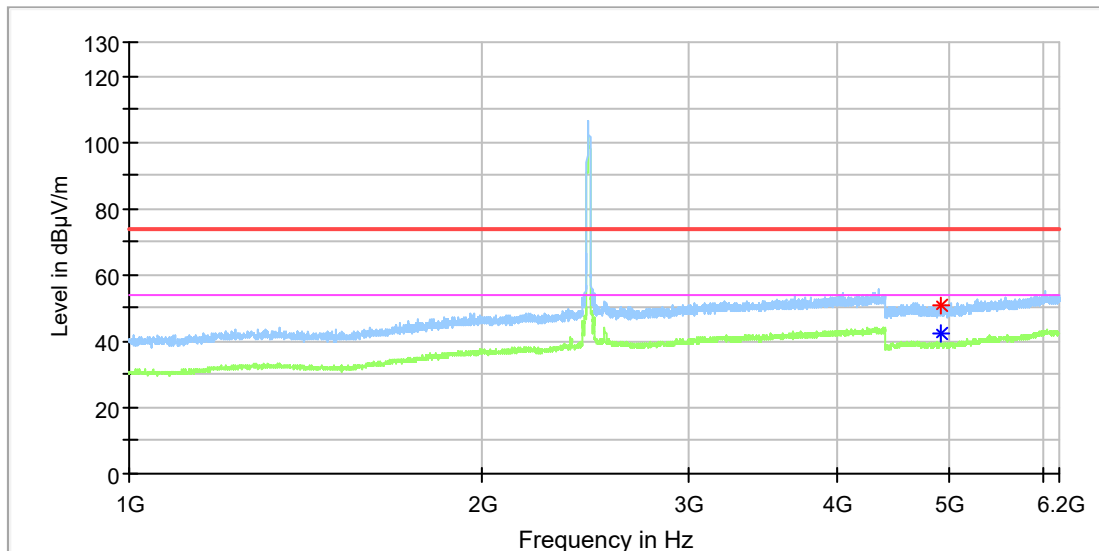
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7309.200000     | 47.64            | ---              | 74.00          | 26.36       | 150.0       | V   | 334.0         | 8.2          |
| 7309.200000     | ---              | 40.91            | 54.00          | 13.09       | 150.0       | V   | 334.0         | 8.2          |

## Final Result

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

## EUT Information

EUT Name: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11b\_Ch11  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

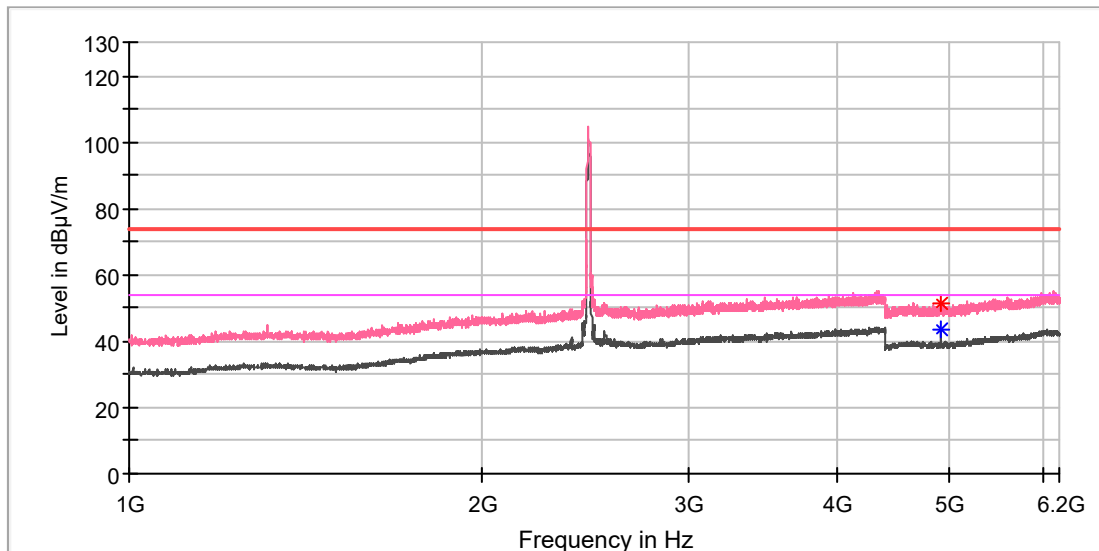
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4924.000000     | 50.65            | ---              | 74.00          | 23.35       | 150.0       | H   | 183.0         | 11.8         |
| 4924.000000     | ---              | 42.21            | 54.00          | 11.79       | 150.0       | H   | 183.0         | 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: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11b\_Ch11  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

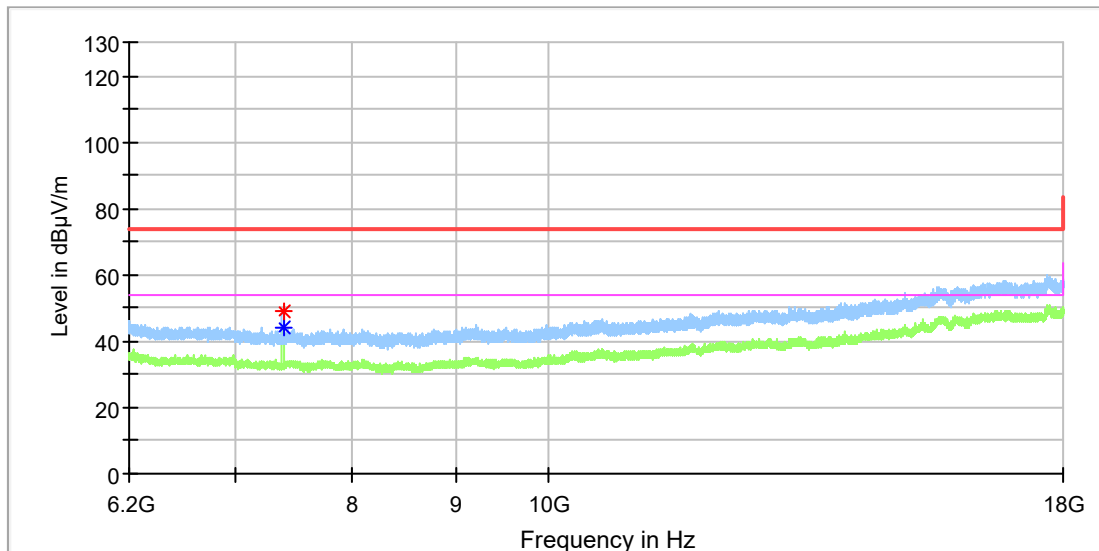
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4911.500000     | 51.35            | ---              | 74.00          | 22.65       | 150.0       | V   | 346.0         | 11.8         |
| 4924.000000     | ---              | 43.28            | 54.00          | 10.72       | 150.0       | V   | 346.0         | 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: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11b\_Ch11  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

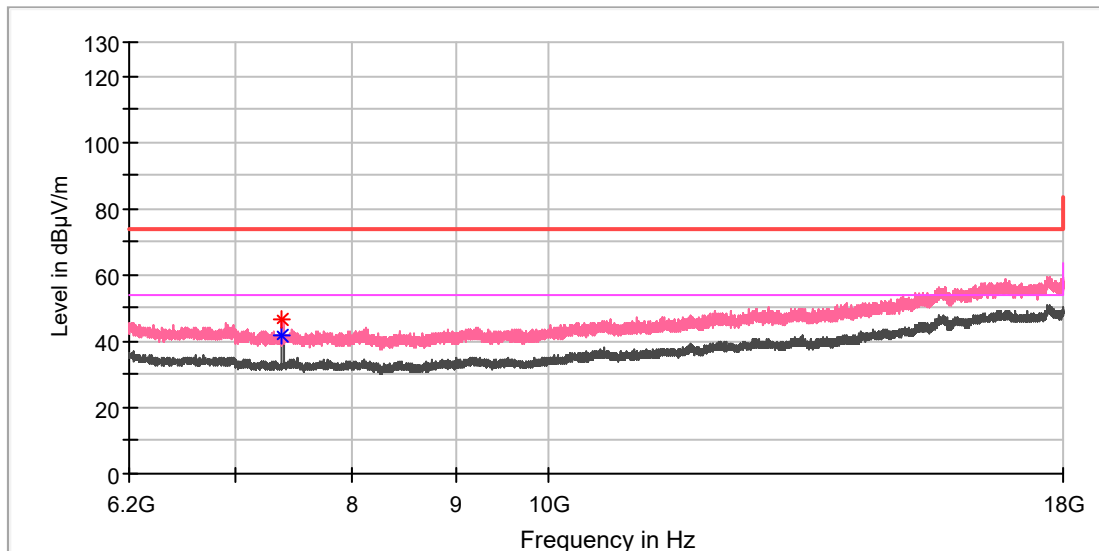
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7386.883333     | ---              | 43.86            | 54.00          | 10.14       | 150.0       | H   | 25.0          | 8.2          |
| 7387.375000     | 48.91            | ---              | 74.00          | 25.09       | 150.0       | H   | 37.0          | 8.2          |

## Final Result

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

## EUT Information

EUT Name: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11b\_Ch11  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

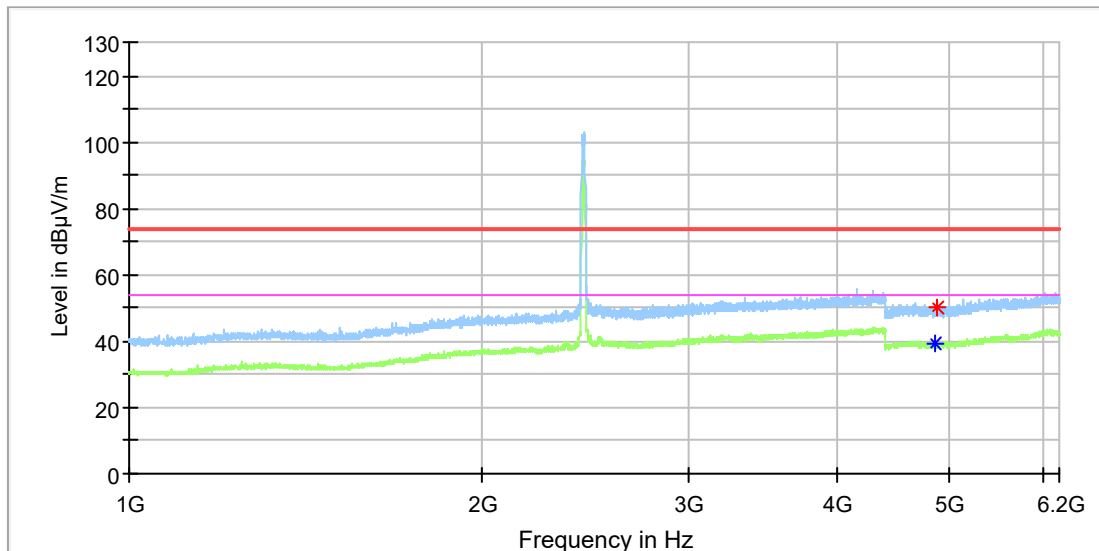
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7384.916667     | 46.74            | ---              | 74.00          | 27.26       | 150.0       | V   | 338.0         | 8.2          |
| 7384.916667     | ---              | 41.57            | 54.00          | 12.43       | 150.0       | V   | 338.0         | 8.2          |

## Final Result

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

## EUT Information

EUT Name: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11g\_Ch6  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

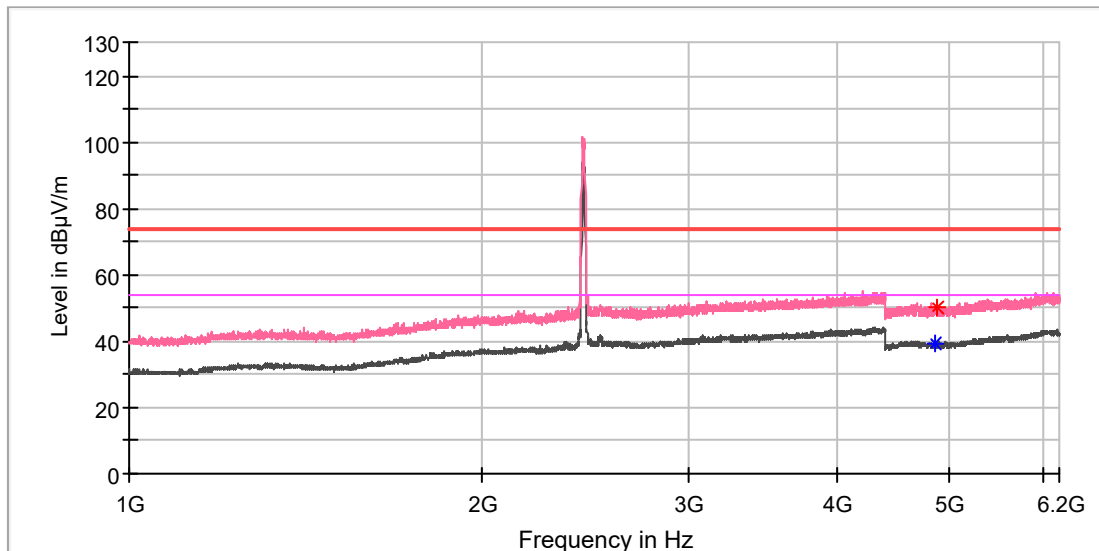
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4855.500000     | ---              | 39.41            | 54.00          | 14.59       | 150.0       | H   | 67.0          | 11.8         |
| 4872.000000     | 50.27            | ---              | 74.00          | 23.73       | 150.0       | H   | 342.0         | 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: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11g\_Ch6  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

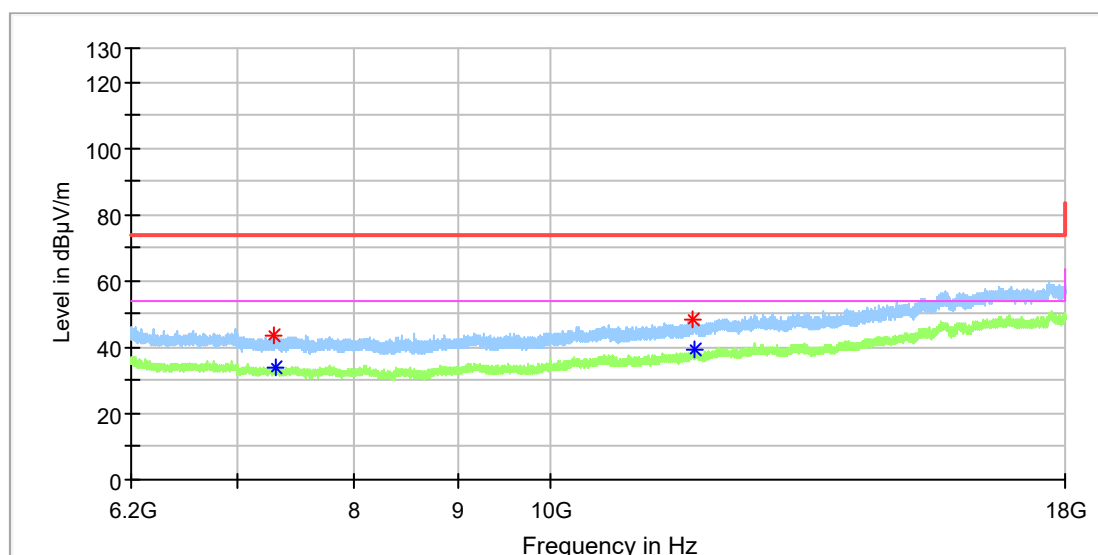
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4864.000000     | ---              | 39.30            | 54.00          | 14.70       | 150.0       | V   | 351.0         | 11.8         |
| 4869.000000     | 50.45            | ---              | 74.00          | 23.55       | 150.0       | V   | 314.0         | 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: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11g\_Ch6  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

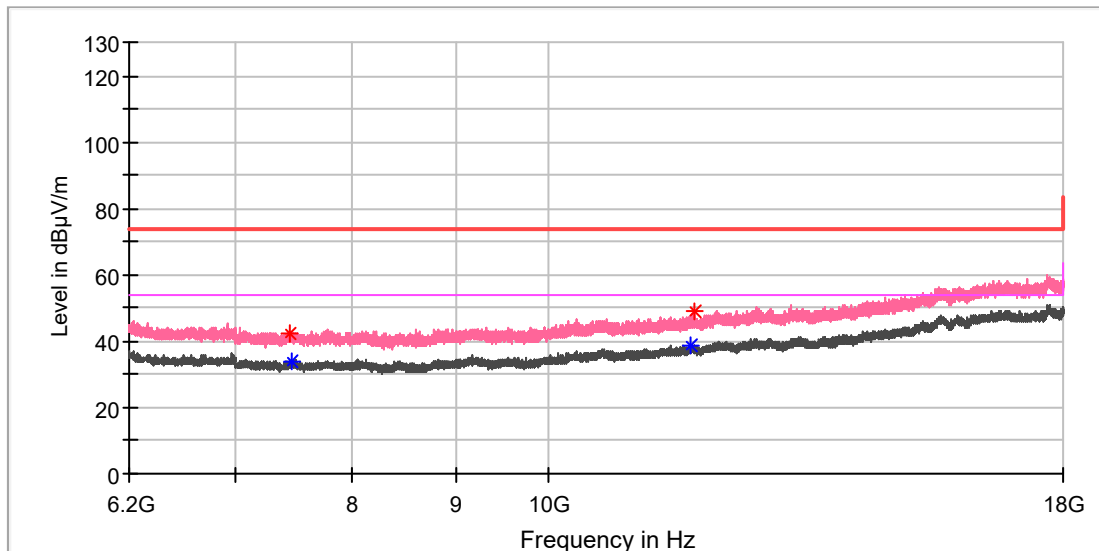
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7286.091667     | 43.64            | ---              | 74.00          | 30.36       | 150.0       | H   | 356.0         | 8.4          |
| 7304.775000     | ---              | 34.13            | 54.00          | 19.87       | 150.0       | H   | 235.0         | 8.3          |
| 11775.008333    | 48.11            | ---              | 74.00          | 25.89       | 150.0       | H   | 318.0         | 13.4         |
| 11781.891667    | ---              | 39.19            | 54.00          | 14.81       | 150.0       | H   | 222.0         | 13.4         |

## Final Result

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

## EUT Information

EUT Name: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11g\_Ch6  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

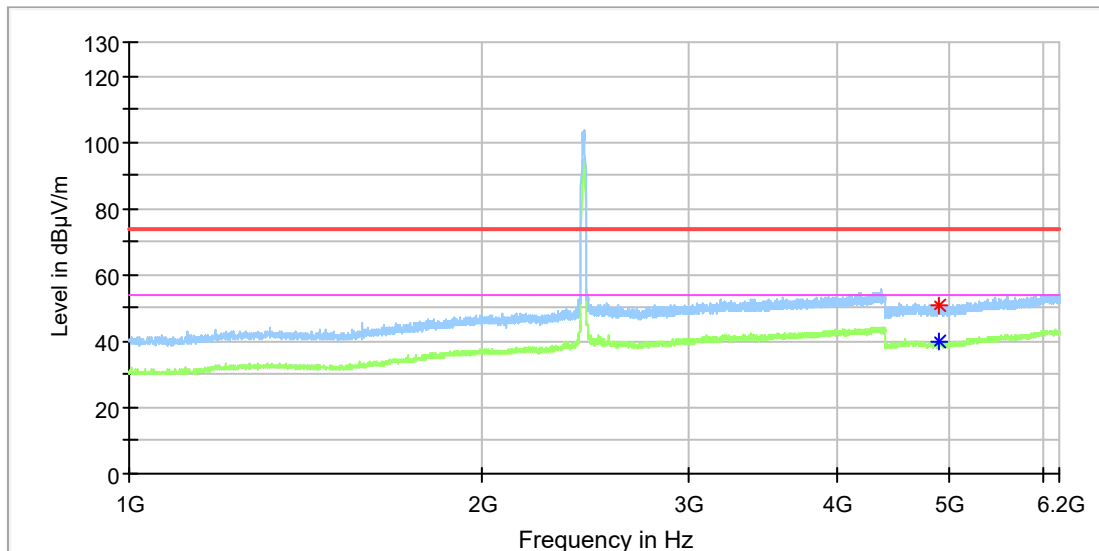
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7441.950000     | 42.61            | ---              | 74.00          | 31.39       | 150.0       | V   | 226.0         | 8.4          |
| 7468.991667     | ---              | 34.12            | 54.00          | 19.88       | 150.0       | V   | 93.0          | 8.6          |
| 11772.550000    | ---              | 38.81            | 54.00          | 15.19       | 150.0       | V   | 201.0         | 13.4         |
| 11819.258333    | 48.70            | ---              | 74.00          | 25.30       | 150.0       | V   | 226.0         | 13.5         |

## Final\_Result

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

## EUT Information

EUT Name: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11n20\_Ch6  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

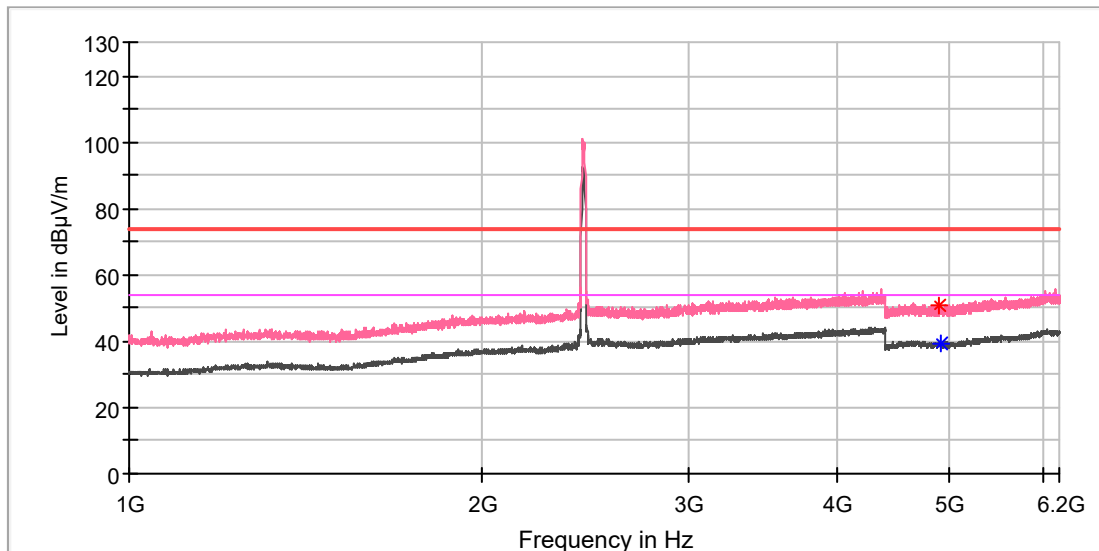
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4902.500000     | ---              | 39.89            | 54.00          | 14.11       | 150.0       | H   | 74.0          | 11.8         |
| 4904.000000     | 50.83            | ---              | 74.00          | 23.17       | 150.0       | H   | 321.0         | 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: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11n20\_Ch6  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

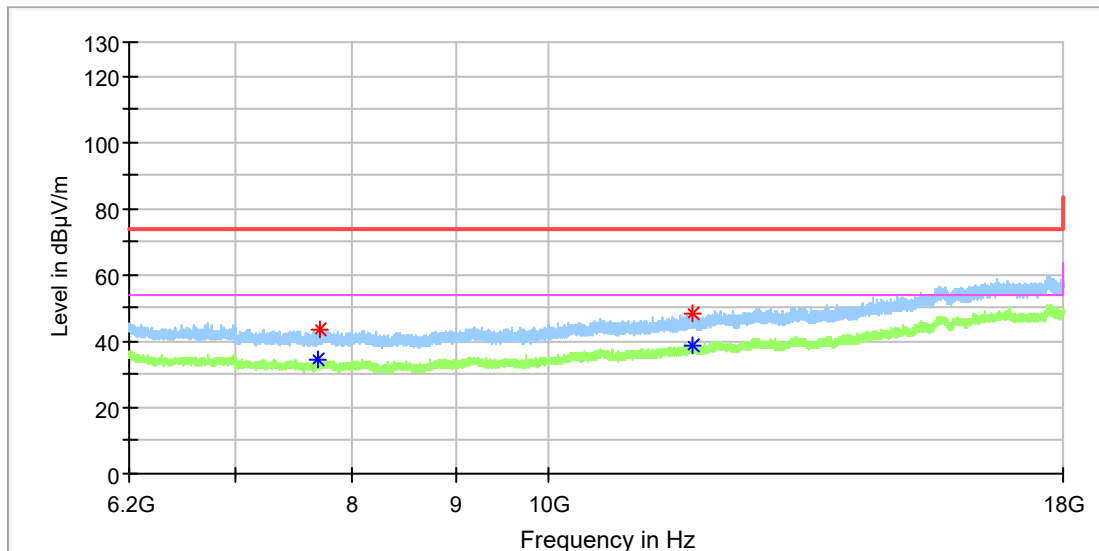
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4903.500000     | 50.94            | ---              | 74.00          | 23.06       | 150.0       | V   | 318.0         | 11.8         |
| 4909.500000     | ---              | 39.53            | 54.00          | 14.47       | 150.0       | V   | 100.0         | 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: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11n20\_Ch6  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

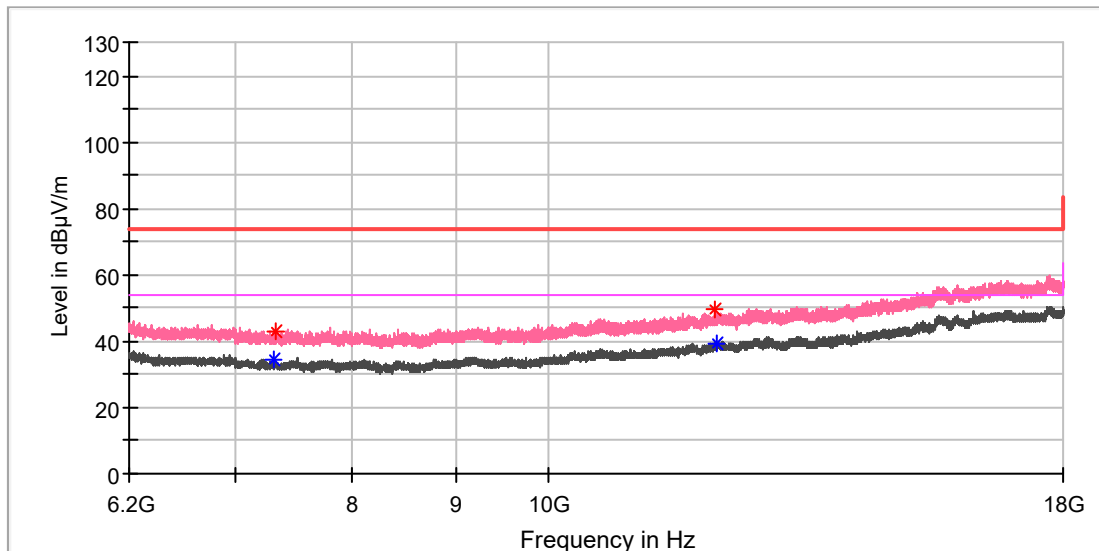
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7685.325000     | ---              | 34.71            | 54.00          | 19.29       | 150.0       | H   | 195.0         | 8.6          |
| 7702.041667     | 43.31            | ---              | 74.00          | 30.69       | 150.0       | H   | 170.0         | 8.7          |
| 11786.808333    | 48.14            | ---              | 74.00          | 25.86       | 150.0       | H   | 146.0         | 13.4         |
| 11796.150000    | ---              | 38.93            | 54.00          | 15.07       | 150.0       | H   | 255.0         | 13.4         |

## Final\_Result

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

## EUT Information

EUT Name: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11n20\_Ch6  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

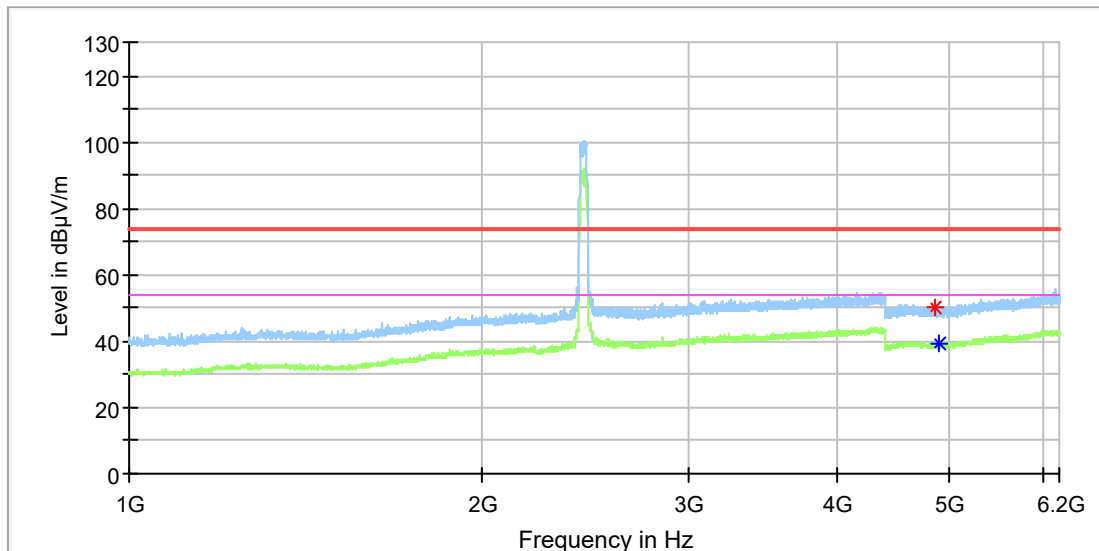
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7304.775000     | ---              | 34.61            | 54.00          | 19.39       | 150.0       | V   | 3.0           | 8.3          |
| 7328.866667     | 43.13            | ---              | 74.00          | 30.87       | 150.0       | V   | 88.0          | 8.1          |
| 12091.150000    | 49.67            | ---              | 74.00          | 24.33       | 150.0       | V   | 88.0          | 14.1         |
| 12115.241667    | ---              | 39.52            | 54.00          | 14.48       | 150.0       | V   | 3.0           | 14.2         |

## Final\_Result

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

## EUT Information

EUT Name: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11n40\_Ch6  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

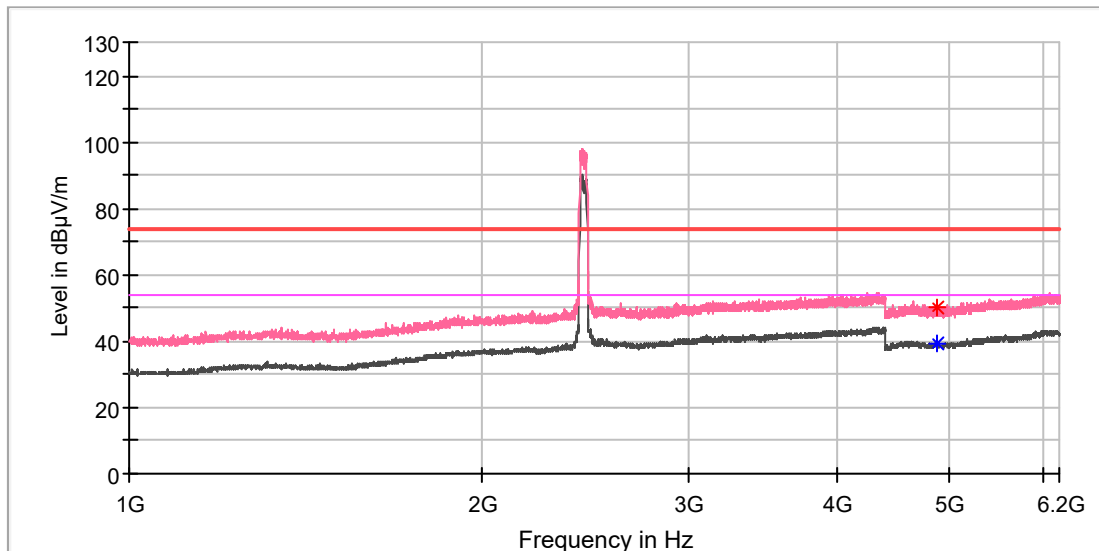
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4855.500000     | 50.36            | ---              | 74.00          | 23.64       | 150.0       | H   | 155.0         | 11.8         |
| 4894.500000     | ---              | 39.18            | 54.00          | 14.82       | 150.0       | H   | 277.0         | 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: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11n40\_Ch6  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

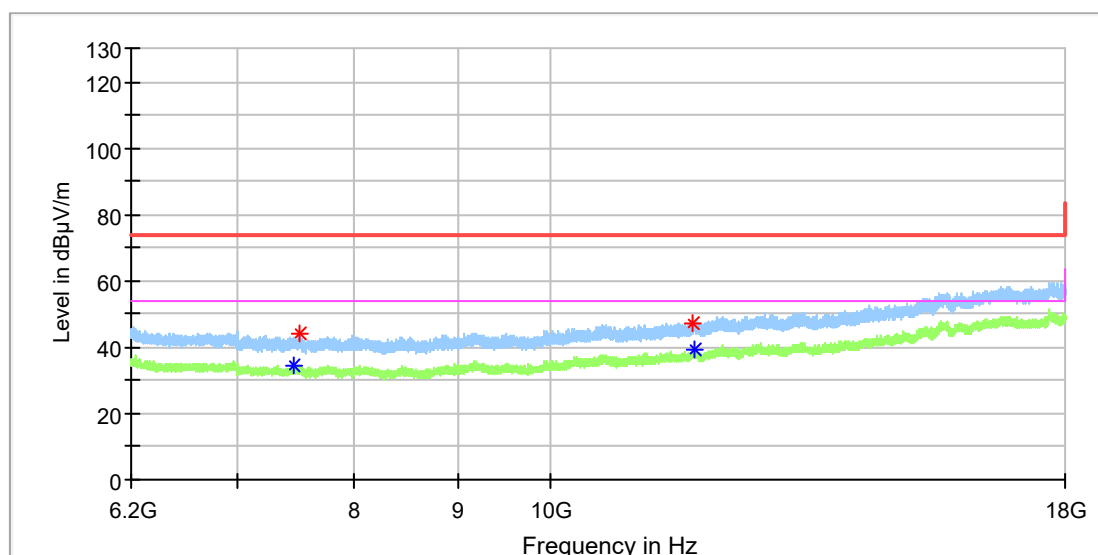
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4870.000000     | 50.08            | ---              | 74.00          | 23.92       | 150.0       | V   | 0.0           | 11.8         |
| 4871.500000     | ---              | 39.11            | 54.00          | 14.89       | 150.0       | V   | 248.0         | 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: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11n40\_Ch6  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

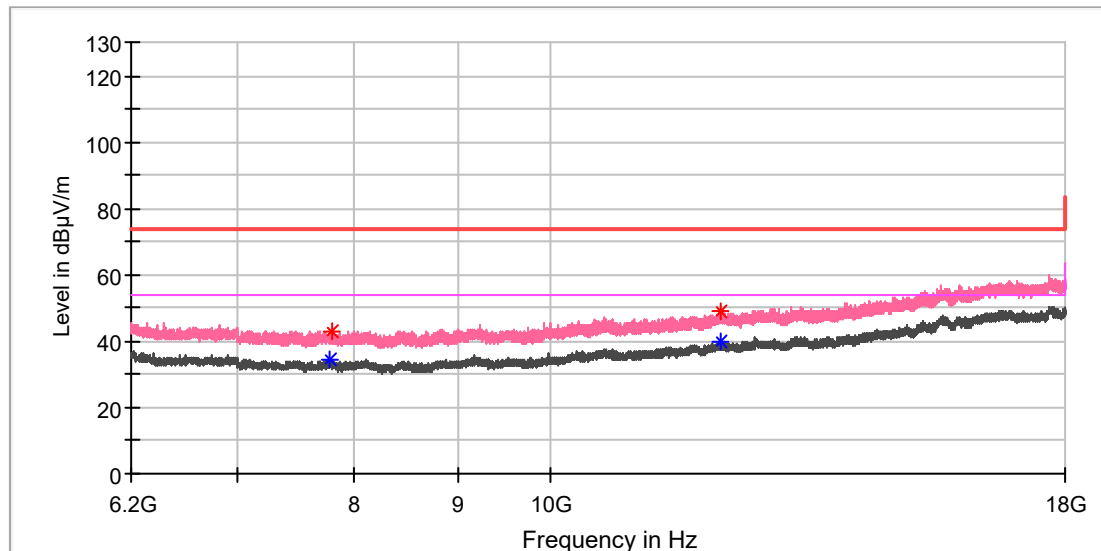
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7464.566667     | ---              | 34.33            | 54.00          | 19.67       | 150.0       | H   | 32.0          | 8.6          |
| 7512.750000     | 44.10            | ---              | 74.00          | 29.90       | 150.0       | H   | 20.0          | 8.7          |
| 11756.325000    | 47.29            | ---              | 74.00          | 26.71       | 150.0       | H   | 290.0         | 13.3         |
| 11783.858333    | ---              | 39.30            | 54.00          | 14.70       | 150.0       | H   | 263.0         | 13.4         |

## Final\_Result

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

## EUT Information

EUT Name: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11n40\_Ch6  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
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) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7769.400000     | ---              | 34.51            | 54.00          | 19.49       | 150.0       | V   | 296.0         | 8.9          |
| 7790.050000     | 42.95            | ---              | 74.00          | 31.05       | 150.0       | V   | 296.0         | 8.9          |
| 12143.758333    | ---              | 39.99            | 54.00          | 14.01       | 150.0       | V   | 0.0           | 14.4         |
| 12154.083333    | 49.02            | ---              | 74.00          | 24.98       | 150.0       | V   | 0.0           | 14.4         |

## Final\_Result

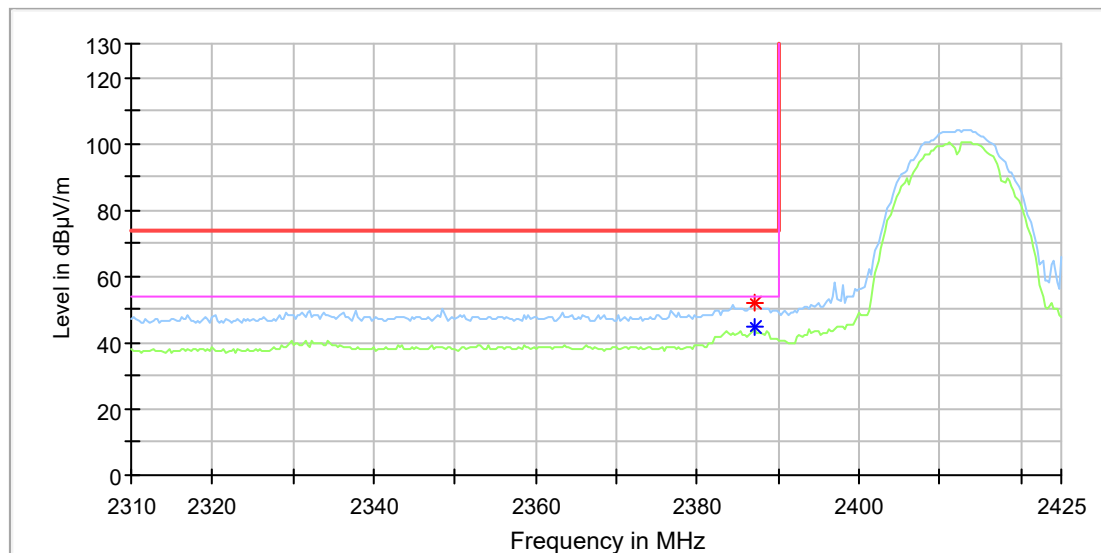
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---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

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

Wi-Fi 802.11 b mode

### EUT Information

|                     |                          |
|---------------------|--------------------------|
| EUT Name:           | Robotic Vacuum Cleaner   |
| Model:              | QR1PES                   |
| Test Mode:          | WIFI 2.4G_11b_Ch1        |
| Order No/Sample No: | 168442340/A003571500-001 |
| Test Voltage:       | Battery                  |
| Remark:             | Temp 22 Humi:55%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



### Critical Freqs

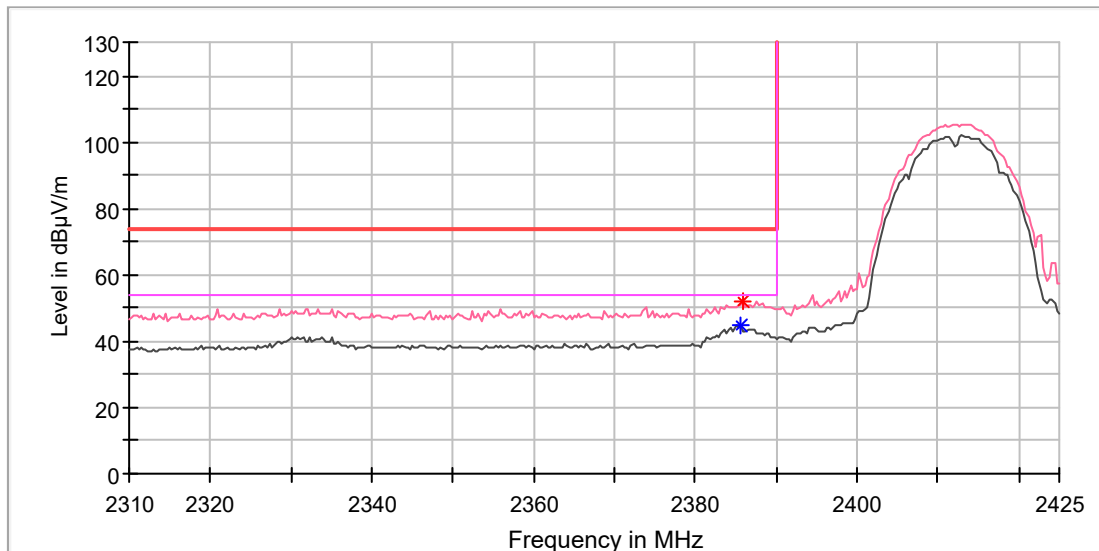
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2387.058824     | 52.30            | ---              | 74.00          | 21.70       | 150.0       | H   | 334.0         | 7.0          |
| 2387.058824     | ---              | 44.50            | 54.00          | 9.50        | 150.0       | H   | 334.0         | 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: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11b\_Ch1  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

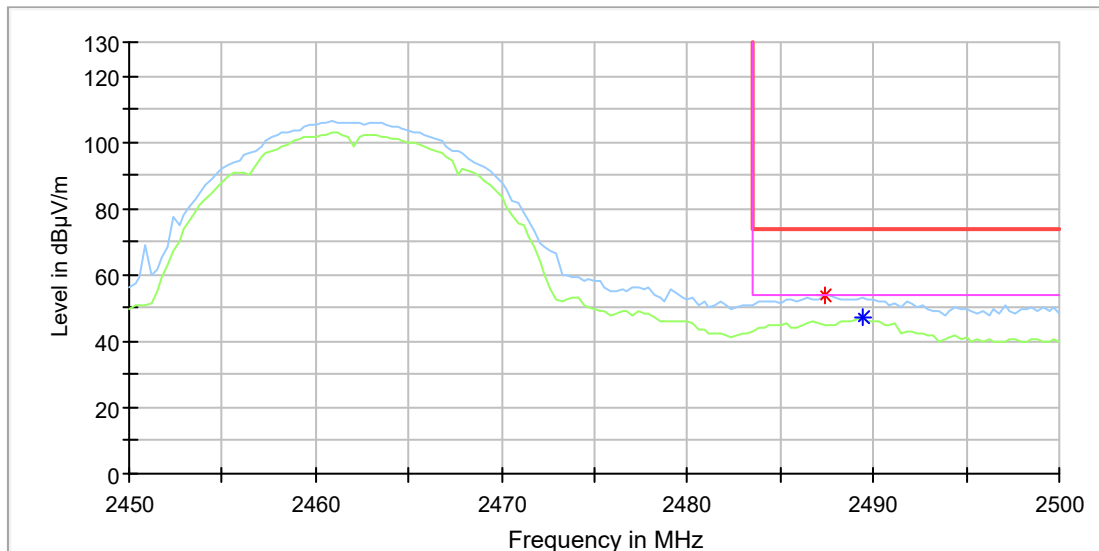
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2385.588235     | ---              | 44.91            | 54.00          | 9.09        | 150.0       | V   | 21.0          | 7.0          |
| 2385.882353     | 52.07            | ---              | 74.00          | 21.93       | 150.0       | V   | 29.0          | 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: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11b\_Ch11  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

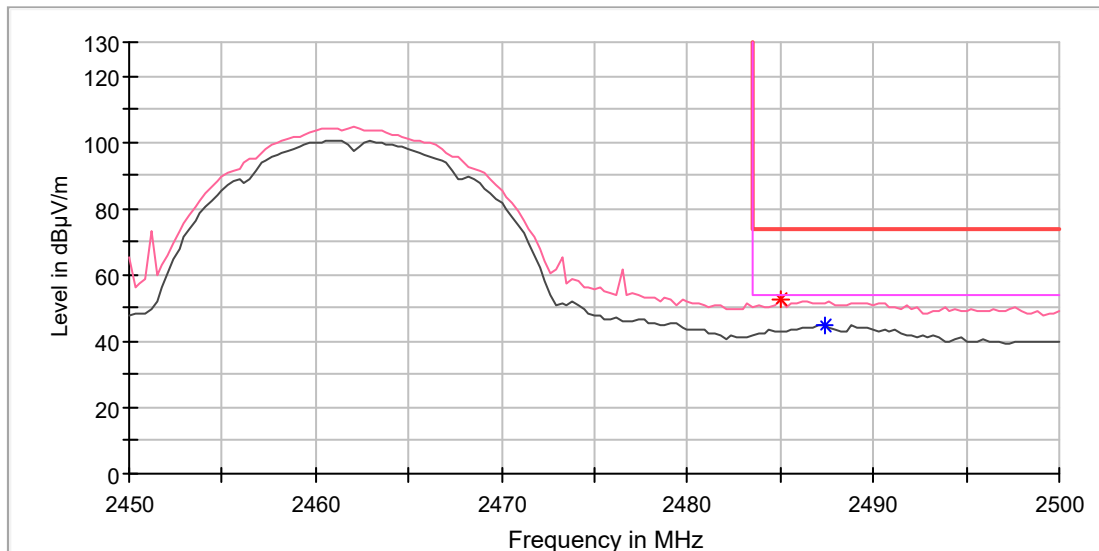
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2487.352941     | 53.91            | ---              | 74.00          | 20.09       | 150.0       | H   | 338.0         | 7.4          |
| 2489.411765     | ---              | 47.14            | 54.00          | 6.86        | 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: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11b\_Ch11  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
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) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2485.000000     | 52.51            | ---              | 74.00          | 21.49       | 150.0       | V   | 289.0         | 7.4          |
| 2487.352941     | ---              | 44.86            | 54.00          | 9.14        | 150.0       | V   | 295.0         | 7.4          |

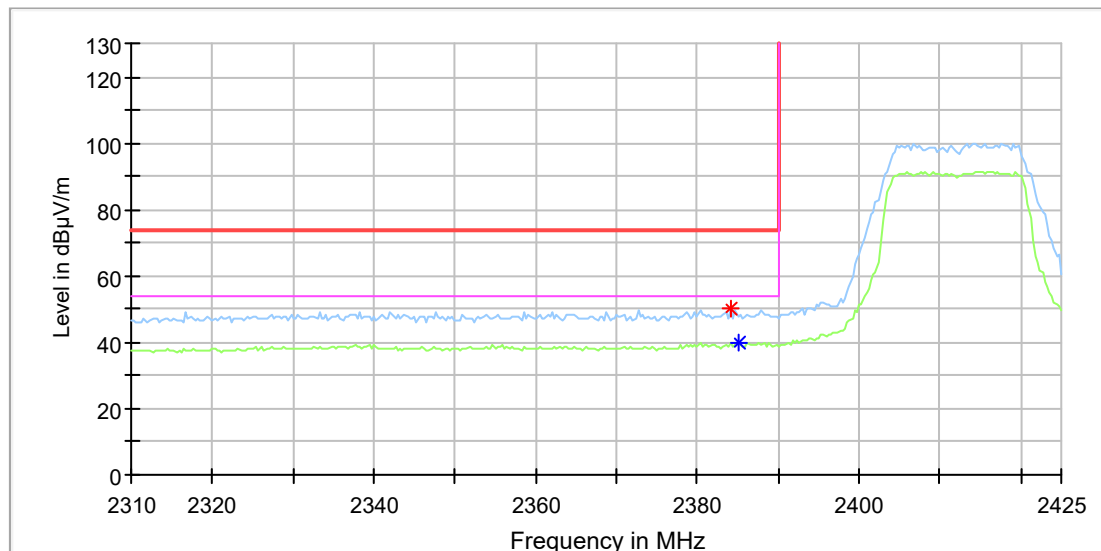
## Final\_Result

| 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:           | Robotic Vacuum Cleaner   |
| Model:              | QR1PES                   |
| Test Mode:          | WIFI 2.4G_11g_Ch1        |
| Order No/Sample No: | 168442340/A003571500-001 |
| Test Voltage:       | Battery                  |
| Remark:             | Temp 22 Humi:55%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



### Critical Freqs

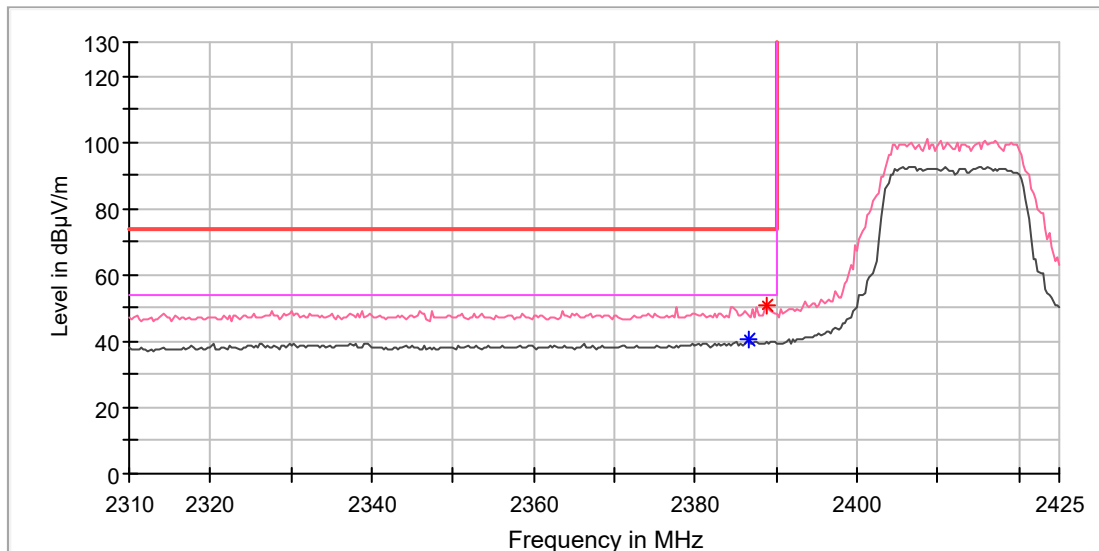
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2384.117647     | 50.00            | ---              | 74.00          | 24.00       | 150.0       | H   | 357.0         | 7.0          |
| 2385.000000     | ---              | 39.93            | 54.00          | 14.07       | 150.0       | H   | 337.0         | 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: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11g\_Ch1  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

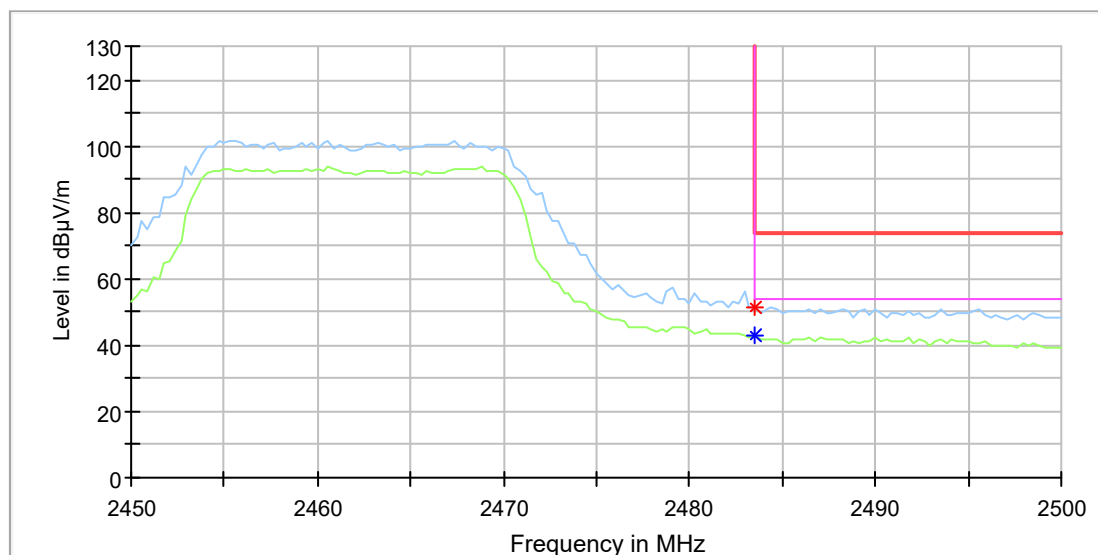
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2386.470588     | ---              | 40.39            | 54.00          | 13.61       | 150.0       | V   | 29.0          | 7.0          |
| 2388.823529     | 50.80            | ---              | 74.00          | 23.20       | 150.0       | V   | 37.0          | 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:           | Robotic Vacuum Cleaner   |
| Model:              | QR1PES                   |
| Test Mode:          | WIFI 2.4G_11g_Ch11       |
| Order No/Sample No: | 168442340/A003571500-001 |
| Test Voltage:       | Battery                  |
| Remark:             | Temp 22 Humi:55%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



## Critical\_Freqs

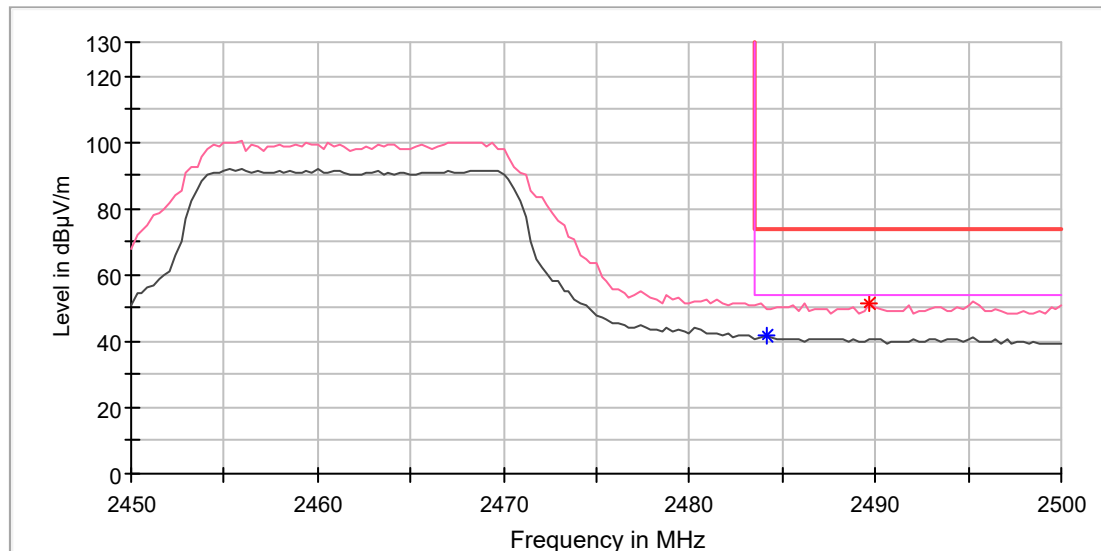
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2483.529412     | 51.62            | ---              | 74.00          | 22.38       | 150.0       | H   | 335.0         | 7.4          |
| 2483.529412     | ---              | 42.85            | 54.00          | 11.15       | 150.0       | H   | 335.0         | 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:           | Robotic Vacuum Cleaner   |
| Model:              | QR1PES                   |
| Test Mode:          | WIFI 2.4G_11g_Ch11       |
| Order No/Sample No: | 168442340/A003571500-001 |
| Test Voltage:       | Battery                  |
| Remark:             | Temp 22 Humi:55%         |
| 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) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2484.117647     | ---              | 41.65            | 54.00          | 12.35       | 150.0       | V   | 289.0         | 7.4          |
| 2489.705882     | 51.67            | ---              | 74.00          | 22.33       | 150.0       | V   | 289.0         | 7.4          |

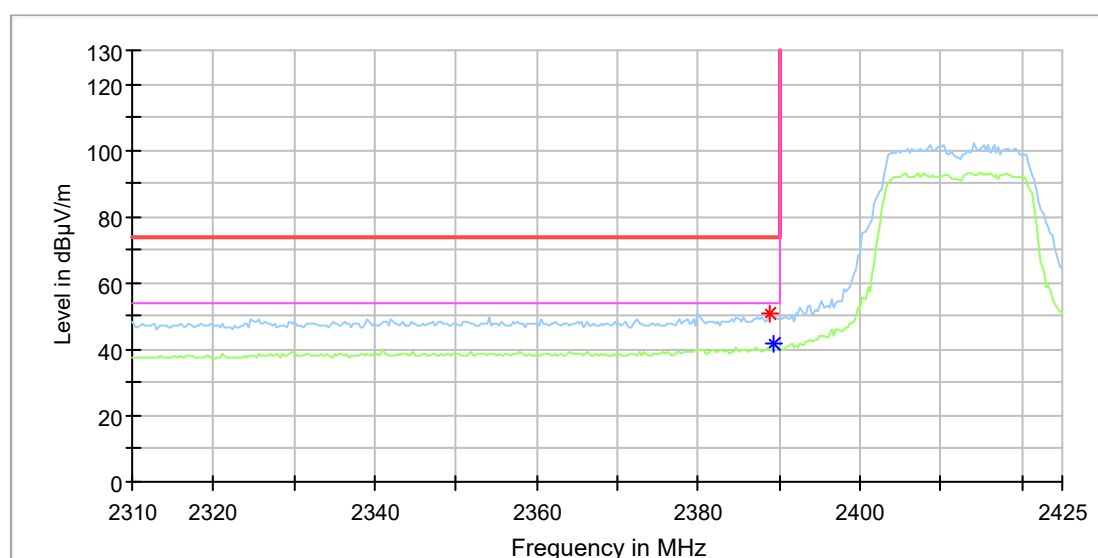
## Final Result

| 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:           | Robotic Vacuum Cleaner   |
| Model:              | QR1PES                   |
| Test Mode:          | WIFI 2.4G_11n20_Ch1      |
| Order No/Sample No: | 168442340/A003571500-001 |
| Test Voltage:       | Battery                  |
| Remark:             | Temp 22 Humi:55%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



### Critical Freqs

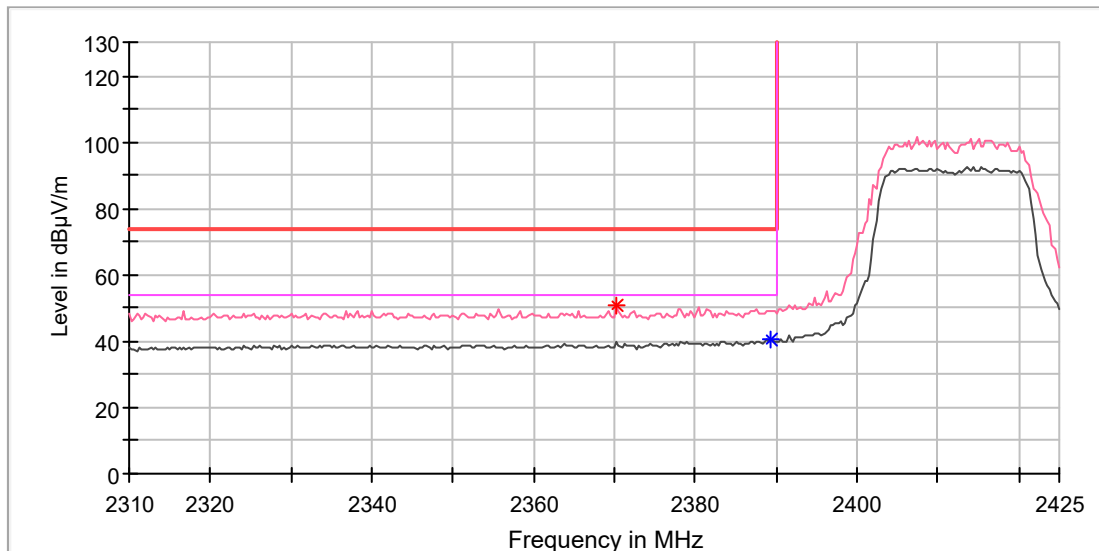
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2388.823529     | 50.72            | ---              | 74.00          | 23.28       | 150.0       | H   | 0.0           | 7.0          |
| 2389.411765     | ---              | 41.52            | 54.00          | 12.48       | 150.0       | H   | 337.0         | 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:           | Robotic Vacuum Cleaner   |
| Model:              | QR1PES                   |
| Test Mode:          | WIFI 2.4G_11n20_Ch1      |
| Order No/Sample No: | 168442340/A003571500-001 |
| Test Voltage:       | Battery                  |
| Remark:             | Temp 22 Humi:55%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



## Critical\_Freqs

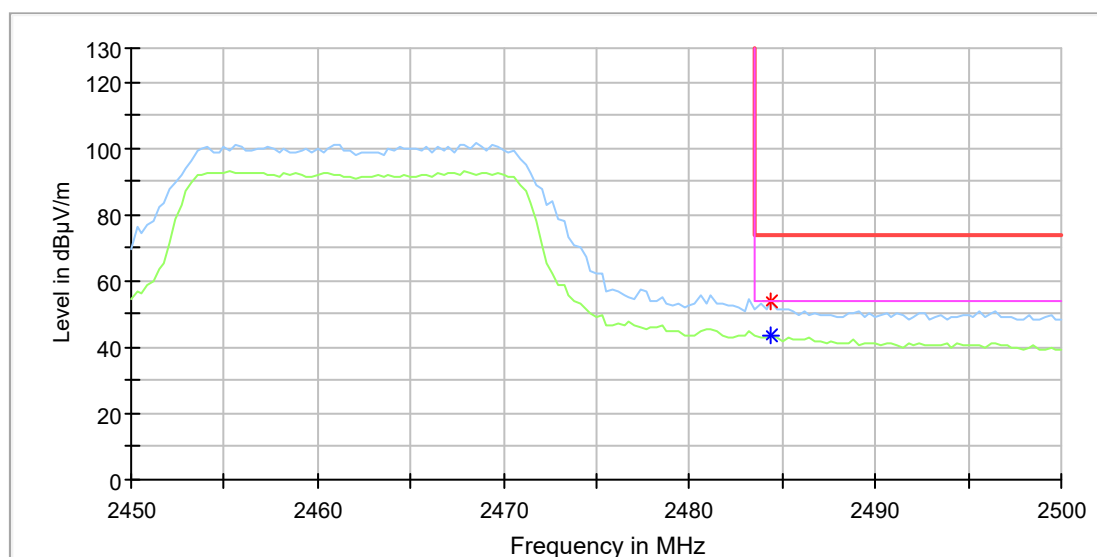
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2370.294118     | 50.87            | ---              | 74.00          | 23.13       | 150.0       | V   | 26.0          | 6.9          |
| 2389.411765     | ---              | 40.75            | 54.00          | 13.25       | 150.0       | V   | 186.0         | 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:           | Robotic Vacuum Cleaner   |
| Model:              | QR1PES                   |
| Test Mode:          | WIFI 2.4G_11n20_Ch11     |
| Order No/Sample No: | 168442340/A003571500-001 |
| Test Voltage:       | Battery                  |
| Remark:             | Temp 22 Humi:55%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



## Critical Freqs

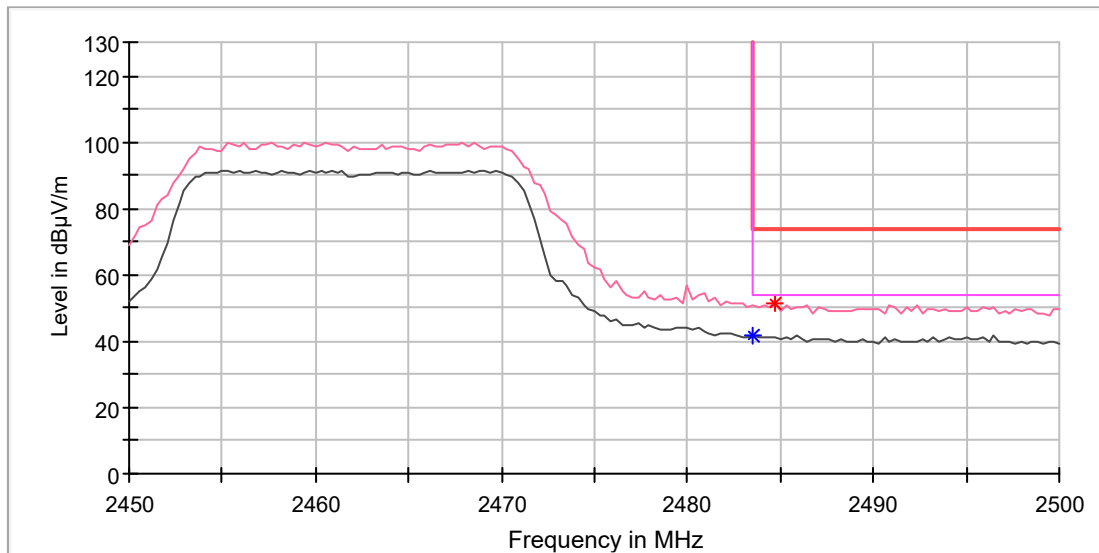
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2484.411765     | ---              | 43.56            | 54.00          | 10.44       | 150.0       | H   | 329.0         | 7.4          |
| 2484.411765     | 53.74            | ---              | 74.00          | 20.26       | 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: Robotic Vacuum Cleaner  
Model: QR1PES  
Test Mode: WIFI 2.4G\_11n20\_Ch11  
Order No/Sample No: 168442340/A003571500-001  
Test Voltage: Battery  
Remark: Temp 22 Humi:55%  
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     | ---              | 41.77            | 54.00          | 12.23       | 150.0       | V   | 176.0         | 7.4          |
| 2484.705882     | 51.36            | ---              | 74.00          | 22.64       | 150.0       | V   | 286.0         | 7.4          |

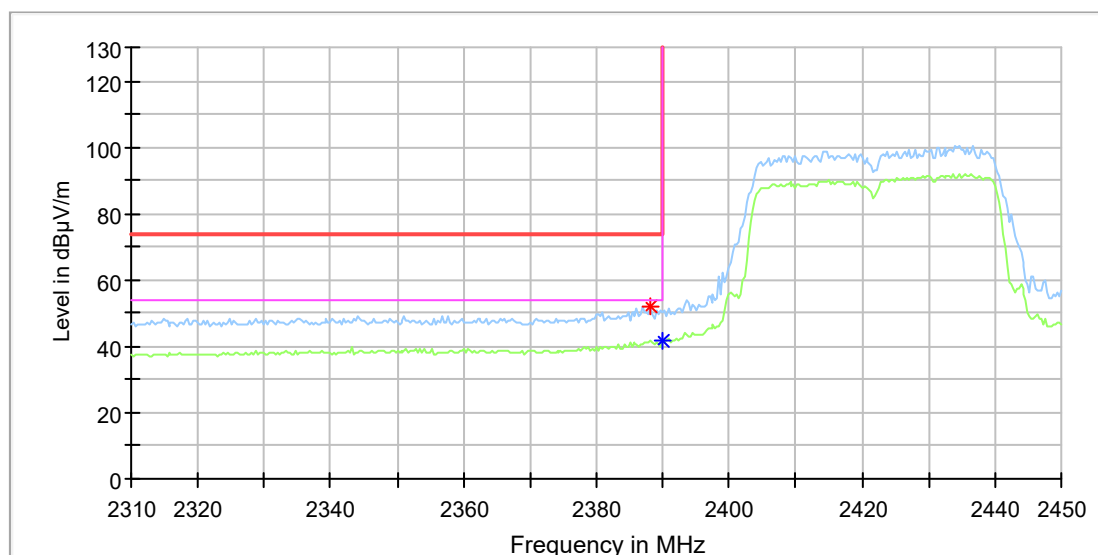
## Final\_Result

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

## Wi-Fi 802.11 n(HT40) mode

### EUT Information

|                     |                          |
|---------------------|--------------------------|
| EUT Name:           | Robotic Vacuum Cleaner   |
| Model:              | QR1PES                   |
| Test Mode:          | WIFI 2.4G_11n40_Ch3      |
| Order No/Sample No: | 168442340/A003571500-001 |
| Test Voltage:       | Battery                  |
| Remark:             | Temp 22 Humi:55%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



### Critical Freqs

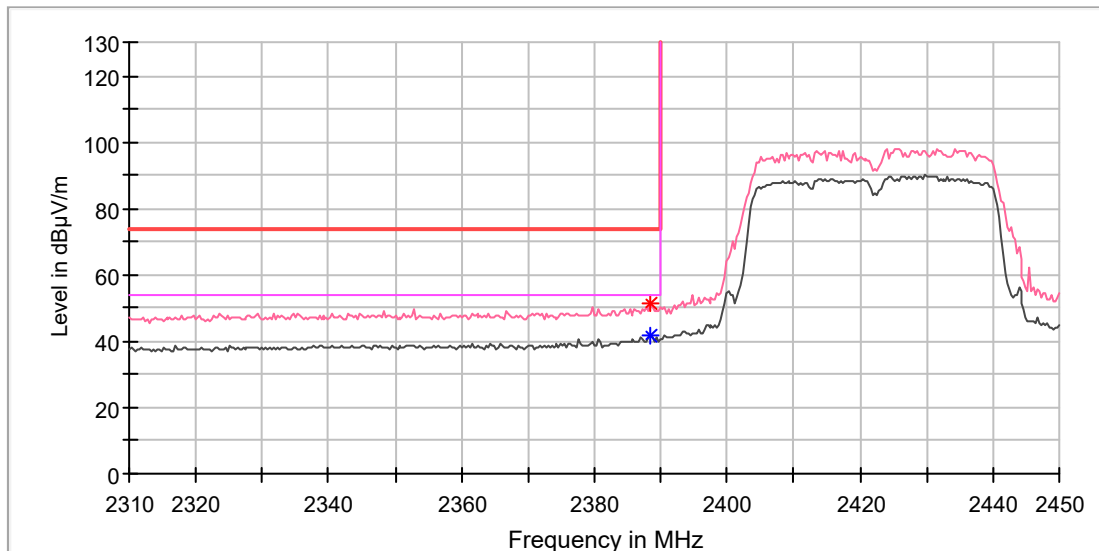
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2388.235294     | 51.99            | ---              | 74.00          | 22.01       | 150.0       | H   | 337.0         | 7.0          |
| 2390.000000     | ---              | 42.01            | 54.00          | 11.99       | 150.0       | H   | 353.0         | 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:           | Robotic Vacuum Cleaner   |
| Model:              | QR1PES                   |
| Test Mode:          | WIFI 2.4G_11n40_Ch3      |
| Order No/Sample No: | 168442340/A003571500-001 |
| Test Voltage:       | Battery                  |
| Remark:             | Temp 22 Humi:55%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



## Critical\_Freqs

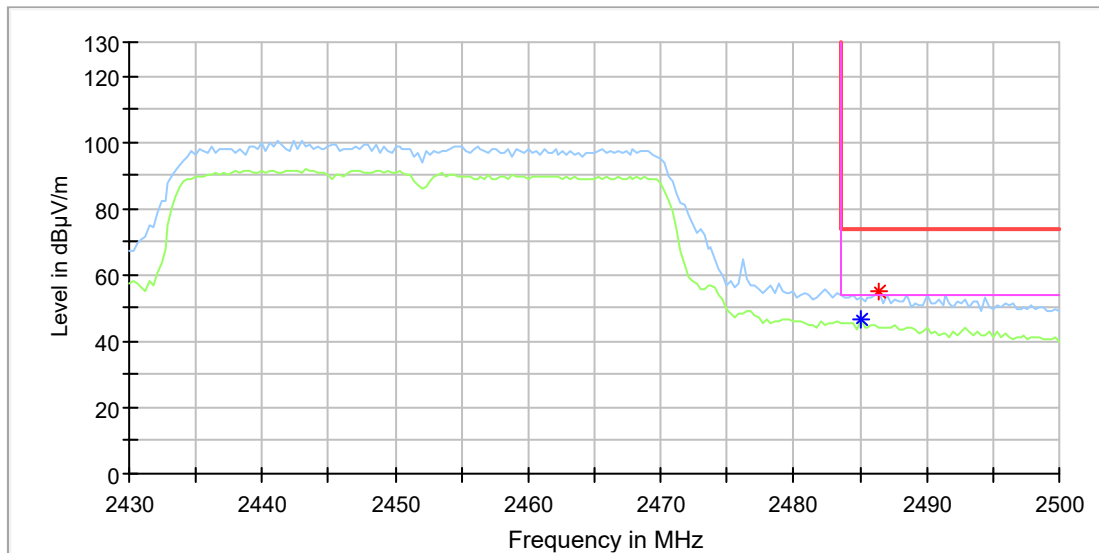
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2388.529412     | ---              | 41.77            | 54.00          | 12.23       | 150.0       | V   | 25.0          | 7.0          |
| 2388.529412     | 51.12            | ---              | 74.00          | 22.88       | 150.0       | V   | 25.0          | 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:           | Robotic Vacuum Cleaner   |
| Model:              | QR1PES                   |
| Test Mode:          | WIFI 2.4G_11n40_Ch9      |
| Order No/Sample No: | 168442340/A003571500-001 |
| Test Voltage:       | Battery                  |
| Remark:             | Temp 22 Humi:55%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



## Critical\_Freqs

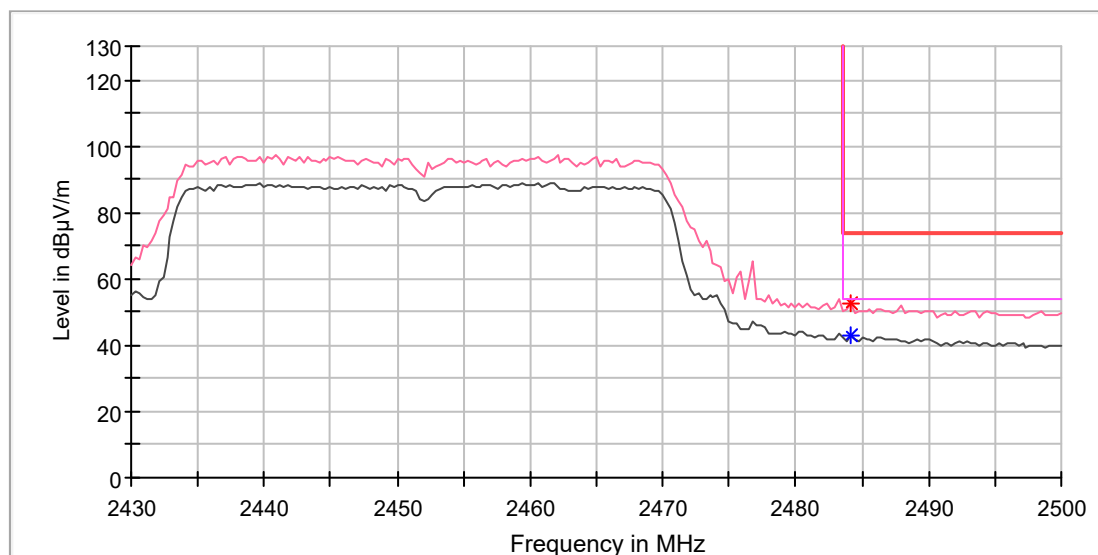
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2485.000000     | ---              | 46.44            | 54.00          | 7.56        | 150.0       | H   | 329.0         | 7.4          |
| 2486.470588     | 54.76            | ---              | 74.00          | 19.24       | 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:           | Robotic Vacuum Cleaner   |
| Model:              | QR1PES                   |
| Test Mode:          | WIFI 2.4G_11n40_Ch9      |
| Order No/Sample No: | 168442340/A003571500-001 |
| Test Voltage:       | Battery                  |
| Remark:             | Temp 22 Humi:55%         |
| 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) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2484.117647     | ---              | 42.69            | 54.00          | 11.31       | 150.0       | V   | 180.0         | 7.4          |
| 2484.117647     | 52.64            | ---              | 74.00          | 21.36       | 150.0       | V   | 180.0         | 7.4          |

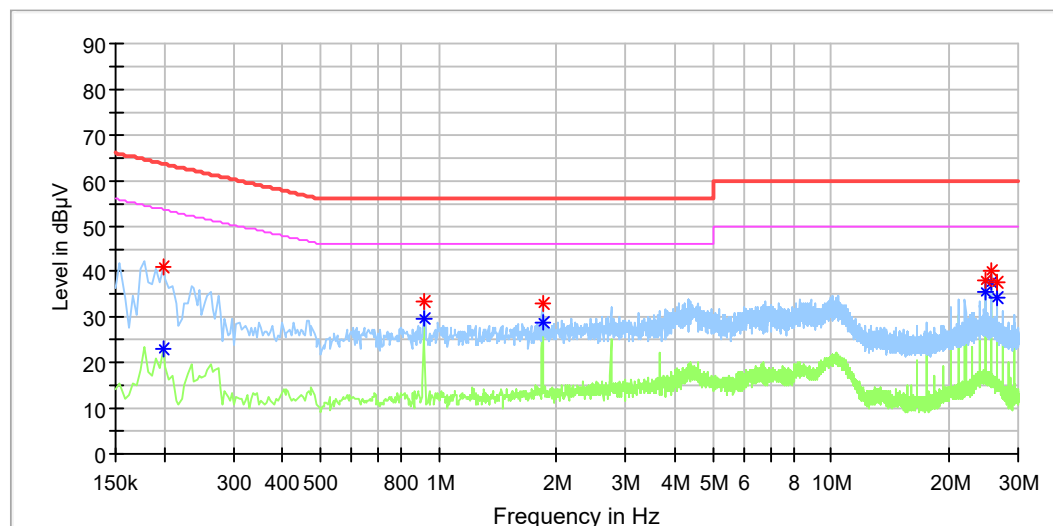
## Final\_Result

| 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:           | Robotic Vacuum Cleaner                  |
| Model:              | QR1PES                                  |
| Test Mode:          | WIFI 2.4G_11b_Ch11                      |
| Order No/Sample No: | 168442340/A003575976-001+A003589984-001 |
| 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<br>(MHz) | MaxPeak<br>(dBμV) | Average<br>(dBμV) | Limit<br>(dBμV) | Margin<br>(dB) | Line | Corr.<br>(dB) |
|--------------------|-------------------|-------------------|-----------------|----------------|------|---------------|
| 0.198000           | 40.93             | ---               | 63.69           | 22.77          | L1   | 9.9           |
| 0.198000           | ---               | 22.99             | 53.69           | 30.71          | L1   | 9.9           |
| 0.918000           | ---               | 29.93             | 46.00           | 16.07          | L1   | 10.0          |
| 0.918000           | 33.64             | ---               | 56.00           | 22.36          | L1   | 10.0          |
| 1.834000           | 33.14             | ---               | 56.00           | 22.86          | L1   | 10.1          |
| 1.834000           | ---               | 29.01             | 46.00           | 16.99          | L1   | 10.1          |
| 24.762000          | 38.12             | ---               | 60.00           | 21.88          | L1   | 10.4          |
| 24.766000          | ---               | 35.39             | 50.00           | 14.61          | L1   | 10.4          |
| 25.682000          | 40.39             | ---               | 60.00           | 19.61          | L1   | 10.4          |
| 25.682000          | ---               | 37.70             | 50.00           | 12.30          | L1   | 10.4          |
| 26.602000          | ---               | 34.20             | 50.00           | 15.80          | L1   | 10.4          |
| 26.602000          | 37.65             | ---               | 60.00           | 22.35          | L1   | 10.4          |

## Final Result

| <b>Frequency<br/>(MHz)</b> | <b>QuasiPeak<br/>(dBμV)</b> | <b>Average<br/>(dBμV)</b> | <b>Limit<br/>(dBμV)</b> | <b>Margin<br/>(dB)</b> | <b>Meas. Time<br/>(ms)</b> | <b>Bandwidth<br/>(kHz)</b> | <b>Line</b> | <b>Corr.<br/>(dB)</b> |
|----------------------------|-----------------------------|---------------------------|-------------------------|------------------------|----------------------------|----------------------------|-------------|-----------------------|
| ---                        | ---                         | ---                       | ---                     | ---                    | ---                        | ---                        |             | ---                   |

