

**FCC PART 15C TEST REPORT FOR CERTIFICATION**  
On Behalf of

Guangdong Joy Intelligent Technology Co., Ltd

Robot vacuum cleaner

Model Number: L2050

Additional Model: L3050,L900,L-VCL0L1,Lxxxx, P1, P1+, L2090,Q6, L2080,  
S31,S30, L2180, L900X,L930, L3150,L20, L30, N3,L21, L31, L2450, L3250,  
L2150, V980 Plus, L2350,L2380, MI WHOLE M7 PRO,L3350, G500, L3080

(x=A-Z, number or blank, indicate different color)

FCC ID: 2AV2K-L2050

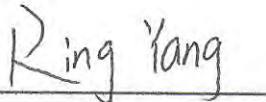
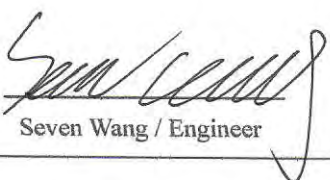
|               |                                                                     |
|---------------|---------------------------------------------------------------------|
| Prepared for: | Guangdong Joy Intelligent Technology Co., Ltd                       |
|               | Room 1201, No. 58, Second Street, Mawu New Village, Changping Town, |
|               | Dongguan, 523586 Guangdong, P.R. China                              |
|               |                                                                     |
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|               | Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China |
|               | Tel: 86-769-83081888-808                                            |

|                 |                             |
|-----------------|-----------------------------|
| Report Number:  | ESTE-R2002081-2             |
| Date of Test:   | Dec. 03, 2020~Feb. 26, 2021 |
| Date of Report: | Mar. 01, 2021               |

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**EST Technology Co., Ltd.**

|                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Applicant:</b>                                                                                                                                                                                 | Guangdong Joy Intelligent Technology Co., Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                |                             |
| <b>Address:</b>                                                                                                                                                                                   | Room 1201, No. 58, Second Street, Mawu New Village, Changping Town, Dongguan, 523586 Guangdong, P.R. China                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                |                             |
| <b>Manufacturer:</b>                                                                                                                                                                              | Guangdong Joy Intelligent Technology Co., Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                |                             |
| <b>Address:</b>                                                                                                                                                                                   | Room 1201, No. 58, Second Street, Mawu New Village, Changping Town, Dongguan, 523586 Guangdong, P.R. China                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                |                             |
| <b>E.U.T:</b>                                                                                                                                                                                     | Robot vacuum cleaner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                |                             |
| <b>Model Number:</b>                                                                                                                                                                              | L2050                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                |                             |
| <b>Additional Model:</b>                                                                                                                                                                          | L3050,L900,L-VCL0L1,Lxxxx, P1, P1+, L2090,Q6, L2080, S31,S30, L2180, L900X,L930, L3150,L20, L30, N3,L21, L31, L2450, L3250, L2150, V980 Plus, L2350,L2380, MI WHOLE M7 PRO, L3350, G500,L3080, (x=A-Z, number or blank, indicate different color)                                                                                                                                                                                                                                                                                             |                                                                                                                                                                |                             |
| <b>Power Supply:</b>                                                                                                                                                                              | DC 24V From Adapter Input AC 100-240V,50/60Hz;<br>DC 24V From Automatic Dirt Disposal Input AC 100-130V,50/60Hz                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                |                             |
| <b>Trade Name:</b>                                                                                                                                                                                | -----                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Serial No.:</b>                                                                                                                                             | -----                       |
| <b>Date of Receipt:</b>                                                                                                                                                                           | Dec. 03, 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Date of Test:</b>                                                                                                                                           | Dec. 03, 2020~Feb. 26, 2021 |
| <b>Test Specification:</b>                                                                                                                                                                        | FCC Part 15 Subpart C (15.247)<br>ANSI C63.10:2013<br>FCC KDB 558074 D01 15.247 Meas Guidance v05r02<br>FCC KDB 662911 D01 Multiple Transmitter Output v02r01                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                |                             |
| <b>Test Result:</b>                                                                                                                                                                               | <p>The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.</p> <p>This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p> |                                                                                                                                                                |                             |
| <b>Prepared by:</b>                                                                                                                                                                               | <b>Reviewed by:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Date:</b> Mar. 04, 2021<br><b>Approved by:</b><br><br><b>Authorize</b> |                             |
| <br>Ring Yang / Assistant                                                                                      | <br>Seven Wang / Engineer                                                                                                                                                                                                                                                                                                                                                                                                                                  | <br>Iceman Hu / Manager                                                   |                             |
| <b>Other Aspects:</b>                                                                                                                                                                             | This report base on the previous report with report number: ESTE-R2005081-1,<br>Because only the add motor and battery, so just re-tested spurious emissions (30-1000MHz)<br>and Conducted Emissions, other test item needn't re-tested.                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                |                             |
| Abbreviations: OK/P=passed    fail/F=failed    n.a/N=not applicable    E.U.T=equipment under tested                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                |                             |
| This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                |                             |

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

|                         |   |                                                                                                                                               |
|-------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name            | : | Robot vacuum cleaner                                                                                                                          |
| Model Number            | : | L2050                                                                                                                                         |
| Software Version        | : | V1                                                                                                                                            |
| Hardware Version        | : | V1                                                                                                                                            |
| Operation frequency     | : | 2412MHz~2462MHz<br>2422MHz~2452MHz                                                                                                            |
| Number of channel       | : | IEEE 802.11b: 11 Channels<br>IEEE 802.11g: 11 Channels<br>IEEE 802.11n HT20: 11 Channels<br>IEEE 802.11n HT40: 7 Channels                     |
| Max Output Power (PEAK) | : | IEEE 802.11b: 16.48dBm<br>IEEE 802.11g: 18.41dBm<br>IEEE 802.11n HT20: 16.39dBm<br>IEEE 802.11n HT40: 16.46dBm                                |
| Modulation Type         | : | IEEE 802.11b mode: DSSS(CCK,QPSK, BPSK)<br>IEEE 802.11g mode: OFDM (BPSK/QPSK/16QAM/64QAM)<br>IEEE 802.11n mode: OFDM (BPSK/QPSK/16QAM/64QAM) |
| Sample Type             | : | Prototype production                                                                                                                          |

**Note:**

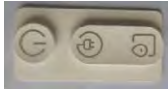
For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

### 1.2. Antenna Information

| Ant No. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|---------|-------|------------|--------------|-----------|------------|
| 1       | N/A   | N/A        | Internal     | N/A       | 4          |

### 1.3. Difference between Model Numbers

**Note:**

| Model                            | L3050,L900                                                                         | L2050,L-VCL0<br>L1,Lxxxx,<br>P1,P1+                                                | L2090,Q6                                                                           | L2080,S31,S30                                                                       | L2180,<br>L900X,L930                                                                 | L3150,L20,<br>L30,<br>N3,L21,<br>L31                                                 |
|----------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Appearance                       |   |   |   |   |   |   |
| Appearance (back)                |   |   |   |   |   |   |
| Switch button                    |  |  |  |  |  |  |
| mainboard model                  | L1050                                                                              | L1050                                                                              | L1050                                                                              | L1050                                                                               | L1050                                                                                | L1050                                                                                |
| Whether to collect dust treasure | without                                                                            | Optional                                                                           | Optional                                                                           | Optional                                                                            | Optional                                                                             | without                                                                              |
| water tank                       | Electric control tank                                                              | external tank                                                                      | external tank                                                                      | external tank                                                                       | external tank                                                                        | Electric control tank                                                                |
| Battery                          | 5200mAh or 3200mAh                                                                 | 5200mAh or 3200mAh                                                                 | 5200mAh or 3200mAh                                                                 | 5200mAh or 3200mAh                                                                  | 5200mAh or 3200mAh                                                                   | 5200mAh or 3200mAh                                                                   |
| Adapter                          | 24V 1.2A                                                                           |                                                                                    |                                                                                    |                                                                                     |                                                                                      |                                                                                      |



|                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                      |                                                                                      |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| L2150, V980 Plus,                                                                  | L2350,L2380, MI WHOLE M7 PRO                                                       | L3350,G500                                                                         | L3080                                                                              | L2450                                                                                | L3250                                                                                |
|   |   |   |   |   |   |
|   |   |   |   |   |   |
|  |  |  |  |  |  |
| L1050                                                                              | L1050                                                                              | L1050                                                                              | L1050                                                                              | L1050                                                                                | L1050                                                                                |
| Optional                                                                           | Optional                                                                           | without                                                                            | without                                                                            | Optional                                                                             | without                                                                              |
| external tank                                                                      | external tank                                                                      | Electric control tank                                                              | Electric control tank                                                              | external tank                                                                        | Electric control tank                                                                |
| 5200mAh or 3200mAh                                                                 | 5200mAh or 3200mAh                                                                 | 5200mAh or 3200mAh                                                                 | 5200mAh or 3200mAh                                                                 | 5200mAh or 3200mAh                                                                   | 5200mAh or 3200mAh                                                                   |
| Adapter                                                                            | 24V 1.2A                                                                           |                                                                                    |                                                                                    |                                                                                      |                                                                                      |

## 2. SUMMARY OF TEST

### 2.1. Summary of test result

| Report Section | Description of Test Item          | FCC Standard Section          | Results |
|----------------|-----------------------------------|-------------------------------|---------|
| 3              | Radiated Spurious Emissions       | 15.205<br>15.209<br>15.247(d) | PASS    |
| 4              | AC Power Line Conducted Emissions | 15.207                        | PASS    |

Note:

(1) "N/A" denotes test is not applicable in this test report

## 2.2. Test Facilities

### EMC Lab

: Certificated by CNAS, CHINA  
Registration No.: L5288  
This Certificate is valid until: November 12, 2023

Certificated by FCC, USA  
Designation Number: CN1215  
This Certificate is valid until: January 31, 2022

Certificated by A2LA, USA  
Registration No.: 4366.01  
This Certificate is valid until: January 31, 2022

Certificated by Industry Canada  
CAB identifier No.: CN0035  
This Certificate is valid until: January 31, 2022

Certificated by VCCI, Japan  
Registration No.: C-14103; T-20073; R-13663;  
R-20103; G-20097  
Date of registration: Apr. 20, 2020  
This Certificate is valid until: Apr. 19, 2023

Certificated by TUV Rheinland, Germany  
Registration No.: UA 50413872 0001  
Date of registration: July 31, 2018

Certificated by Intertek  
Registration No.: 2011-RTL-L2-64  
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China



### 2.3. Measurement uncertainty

| Test Item                                                  | Uncertainty                       |
|------------------------------------------------------------|-----------------------------------|
| Uncertainty for Conduction emission test                   | $\pm 3.48\text{dB}$               |
| Uncertainty for spurious emissions test<br>(30MHz-1GHz)    | $\pm 4.60\text{ dB(Polarize: H)}$ |
|                                                            | $\pm 4.68\text{ dB(Polarize: V)}$ |
| Uncertainty for spurious emissions test<br>(1GHz to 25GHz) | $\pm 4.96\text{dB}$               |
| Uncertainty for radio frequency                            | $7 \times 10^{-8}$                |
| Uncertainty for conducted RF Power                         | $0.20\text{dB}$                   |
| Uncertainty for Power density test                         | $0.26\text{dB}$                   |

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

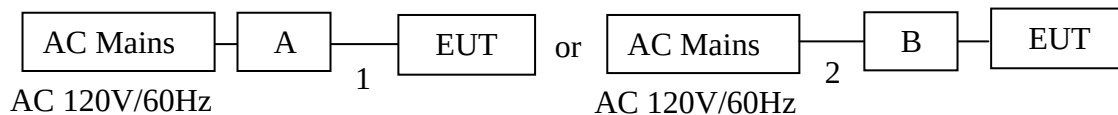
### 2.4. Assistant equipment used for test

| Item | Equipment               | Brand | Model Name/Type No. | FCC ID | Series No. |
|------|-------------------------|-------|---------------------|--------|------------|
| A    | Adapter                 | KA    | KA3601A-2401200US   | -      | -          |
|      | Adapter                 | DB    | DBS036A-2401200U    | -      | -          |
| B    | Automatic Dirt Disposal | LS    | MS1                 | -      | -          |

| Item | Shielded Type | Ferrite Core | Length | Note     |
|------|---------------|--------------|--------|----------|
| 1    | NO            | NO           | 1.2m   | DC Cable |
| 2    | NO            | NO           | 1.2m   | AC Cable |

### 2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.1 meter high above ground. EUT was beset into 2.4G WIFI test mode by software before test.



(EUT: Robot vacuum cleaner)

## 2.6. Test Mode

The test mode was selected for the final test as listed below.

| Test Item                               | Mode              | Date Rate | Test Channel    |
|-----------------------------------------|-------------------|-----------|-----------------|
| Radiated Spurious Emissions(Below 1GHz) | IEEE 802.11b      | 1Mbps     | Low/Middle/High |
|                                         | IEEE 802.11g      | 6Mbps     | Low/Middle/High |
|                                         | IEEE 802.11n HT20 | MCS0      | Low/Middle/High |
|                                         | IEEE 802.11n HT40 | MCS0      | Low/Middle/High |
| AC Power Line Conducted Emissions       | IEEE 802.11b      | 1Mbps     | Low/Middle/High |
|                                         | IEEE 802.11g      | 6Mbps     | Low/Middle/High |
|                                         | IEEE 802.11n HT20 | MCS0      | Low/Middle/High |
|                                         | IEEE 802.11n HT40 | MCS0      | Low/Middle/High |

Note:

1. In radiated measurement,the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane**.

## 2.7. Power Setting of Test Software

| Software Name             | WifiTool_cn |         |         |
|---------------------------|-------------|---------|---------|
| Frequency(MHz)            | 2412        | 2437    | 2462    |
| IEEE 802.11b Setting      | Default     | Default | Default |
| IEEE 802.11g Setting      | Default     | Default | Default |
| IEEE 802.11n HT20 Setting | Default     | Default | Default |
| Frequency(MHz)            | 2422        | 2437    | 2452    |
| IEEE 802.11n HT40 Setting | Default     | Default | Default |

## 2.8. Test Equipment List

| For conducted emission test |                 |              |            |                  |            |           |
|-----------------------------|-----------------|--------------|------------|------------------|------------|-----------|
| Equipment                   | Manufacturer    | Model No.    | Serial No. | Calibration Body | Last Cal.  | Next Cal. |
| EMI Test Receiver           | Rohde & Schwarz | ESHS30       | EST-E001   | LISAI            | June 13,20 | 1 Year    |
| Artificial Mains Network    | Rohde & Schwarz | ENV216       | EST-E002   | LISAI            | June 13,20 | 1 Year    |
| Pulse Limiter               | Rohde & Schwarz | ESH3-Z2      | EST-E078   | LISAI            | June 13,20 | 1 Year    |
| Test Software               | Audix           | e3-6.111221a | N/A        | N/A              | N/A        | N/A       |

| For radiated emission test(9kHz-30MHz) |                 |              |            |                  |            |           |
|----------------------------------------|-----------------|--------------|------------|------------------|------------|-----------|
| Equipment                              | Manufacturer    | Model No.    | Serial No. | Calibration Body | Last Cal.  | Next Cal. |
| EMI Test Receiver                      | Rohde & Schwarz | ESR7         | EST-E047   | LISAI            | June 13,20 | 1 Year    |
| Active Loop Antenna                    | SCHWABE ECK     | FMZB 1519B   | EST-E054   | LISAI            | June 13,20 | 1 Year    |
| Test Software                          | Audix           | e3-6.111221a | N/A        | N/A              | N/A        | N/A       |
| 9kHz-30MHz Cable                       | N/A             | EST-001      | N/A        | N/A              | N/A        | N/A       |

| For radiated emissions test (30MHz-1000MHz) |                 |              |            |                  |            |           |
|---------------------------------------------|-----------------|--------------|------------|------------------|------------|-----------|
| Equipment                                   | Manufacturer    | Model No.    | Serial No. | Calibration Body | Last Cal.  | Next Cal. |
| EMI Test Receiver                           | Rohde & Schwarz | ESR7         | EST-E047   | LISAI            | June 13,20 | 1 Year    |
| Bilog Antenna                               | Teseq           | CBL 6111D    | EST-E034   | LISAI            | June 13,20 | 1 Year    |
| Test Software                               | Audix           | e3-6.111221a | N/A        | N/A              | N/A        | N/A       |
| 30-1000MHz Cable                            | N/A             | EST-002      | N/A        | N/A              | N/A        | N/A       |

### 3. RADIATED SPURIOUS EMISSIONS

#### 3.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

#### 15.205 Restricted frequency band

| MHz                        | MHz                   | MHz             | GHz              |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110              | 16.42 - 16.423        | 399.9 - 410     | 4.5 - 5.15       |
| <sup>1</sup> 0.495 - 0.505 | 16.69475 - 16.69525   | 608 - 614       | 5.35 - 5.46      |
| 2.1735 - 2.1905            | 16.80425 - 16.80475   | 960 - 1240      | 7.25 - 7.75      |
| 4.125 - 4.128              | 25.5 - 25.67          | 1300 - 1427     | 8.025 - 8.5      |
| 4.17725 - 4.17775          | 37.5 - 38.25          | 1435 - 1626.5   | 9.0 - 9.2        |
| 4.20725 - 4.20775          | 73 - 74.6             | 1645.5 - 1646.5 | 9.3 - 9.5        |
| 6.215 - 6.218              | 74.8 - 75.2           | 1660 - 1710     | 10.6 - 12.7      |
| 6.26775 - 6.26825          | 108 - 121.94          | 1718.8 - 1722.2 | 13.25 - 13.4     |
| 6.31175 - 6.31225          | 123 - 138             | 2200 - 2300     | 14.47 - 14.5     |
| 8.291 - 8.294              | 149.9 - 150.05        | 2310 - 2390     | 15.35 - 16.2     |
| 8.362 - 8.366              | 156.52475 - 156.52525 | 2483.5 - 2500   | 17.7 - 21.4      |
| 8.37625 - 8.38675          | 156.7 - 156.9         | 2690 - 2900     | 22.01 - 23.12    |
| 8.41425 - 8.41475          | 162.0125 - 167.17     | 3260 - 3267     | 23.6 - 24.0      |
| 12.29 - 12.293             | 167.72 - 173.2        | 3332 - 3339     | 31.2 - 31.8      |
| 12.51975 - 12.52025        | 240 - 285             | 3345.8 - 3358   | 36.43 - 36.5     |
| 12.57675 - 12.57725        | 322 - 335.4           | 3600 - 4400     | ( <sup>2</sup> ) |

#### 15.209 Limit

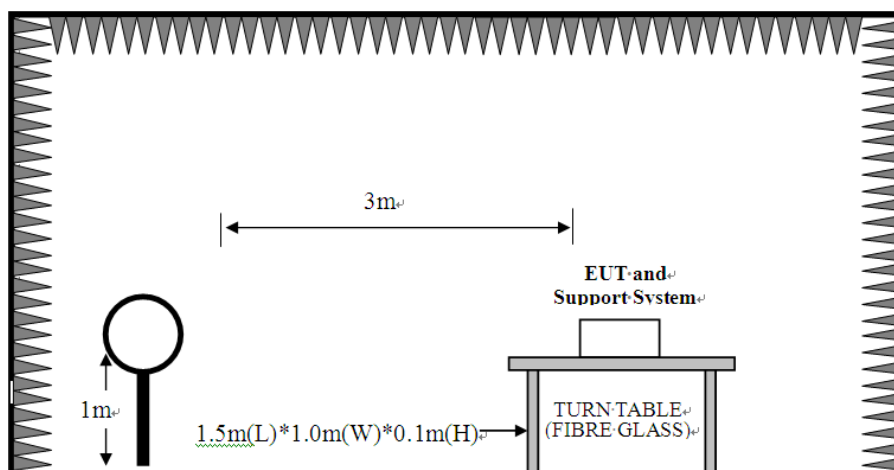
| Frequency (MHz) | Field Strength( $\mu$ V/m) | Distance(m) |
|-----------------|----------------------------|-------------|
| 0.009-0.490     | 2400/F(kHz)                | 300         |
| 0.490-1.705     | 24000/F(kHz)               | 30          |
| 1.705-30        | 30                         | 30          |
| 30-88           | 100                        | 3           |
| 88-216          | 150                        | 3           |
| 216-960         | 200                        | 3           |
| Above 960       | 500                        | 3           |

Note:

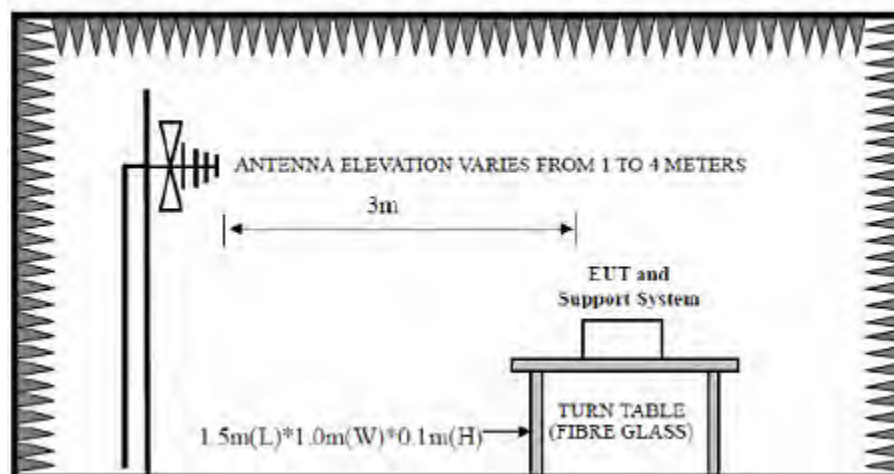
- (1) Emission level dB $\mu$ V = 20 log Emission level  $\mu$ V/m.
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

### 3.2. Test setup

9kHz~30MHz



30~1000MHz





### 3.3. Spectrum Analyzer Setting

For 9KHz-150KHz

| Spectrum Parameters | Setting                                 |
|---------------------|-----------------------------------------|
| RBW                 | 300Hz(for Peak&AVG)/CISPR 200Hz(for QP) |
| VBW                 | 300Hz(for Peak&AVG)/CISPR 200Hz(for QP) |
| Start frequency     | 9KHz                                    |
| Stop frequency      | 150KHz                                  |
| Sweep Time          | Auto                                    |
| Detector            | PEAK/QP/AVG                             |
| Trace Mode          | Max Hold                                |

For 150KHz-30MHz

| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 9KHz     |
| VBW                 | 9KHz     |
| Start frequency     | 150KHz   |
| Stop frequency      | 30MHz    |
| Sweep Time          | Auto     |
| Detector            | QP       |
| Trace Mode          | Max Hold |

For 30MHz-1GHz

| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 120KHz   |
| VBW                 | 300KHz   |
| Start frequency     | 30MHz    |
| Stop frequency      | 1GHz     |
| Sweep Time          | Auto     |
| Detector            | QP       |
| Trace Mode          | Max Hold |

### 3.4. Test Procedure

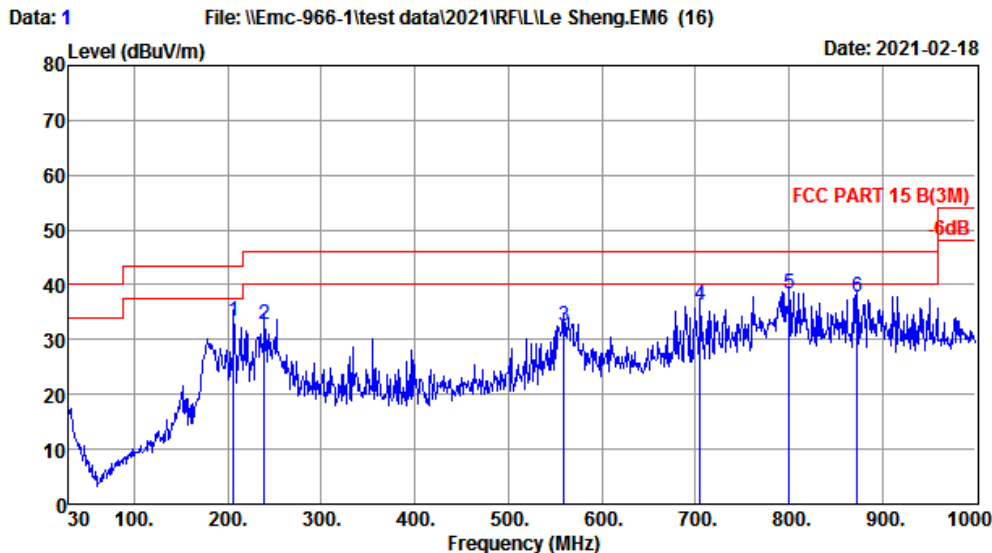
- EUT was placed on a turn table, which is 0.1 meter high above ground for below 1GHz test.
- EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- Set the EUT transmit continuously with maximum output power.
- The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Repeat above procedures until all channels were measured.
- Record the results in the test report.

## 3.5. Test Result

## Radiated Emissions Below 1GHz

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Site no. : 1# 966 Chamber Data no. : 1  
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:27.1';Humi:50%;Press:101.52kPa  
 Engineer : Zzb  
 EUT : Robot Vacuum cleaner  
 Power : DC 14.4V From Battery  
 M/N : L2050  
 Test Mode : TX Mode  
 H18650CH-4S2P+RC500-KN-11630

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 206.54         | 8.63                    | 1.32                  | 23.47             | 33.42                         | 43.50             | 10.08          | QP     |
| 2 | 239.52         | 11.30                   | 1.58                  | 19.80             | 32.68                         | 46.00             | 13.32          | QP     |
| 3 | 559.62         | 19.80                   | 2.87                  | 9.79              | 32.46                         | 46.00             | 13.54          | QP     |
| 4 | 705.12         | 21.70                   | 3.30                  | 11.37             | 36.37                         | 46.00             | 9.63           | QP     |
| 5 | 800.18         | 22.90                   | 3.58                  | 11.86             | 38.34                         | 46.00             | 7.66           | QP     |
| 6 | 872.93         | 23.87                   | 3.84                  | 10.02             | 37.73                         | 46.00             | 8.27           | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

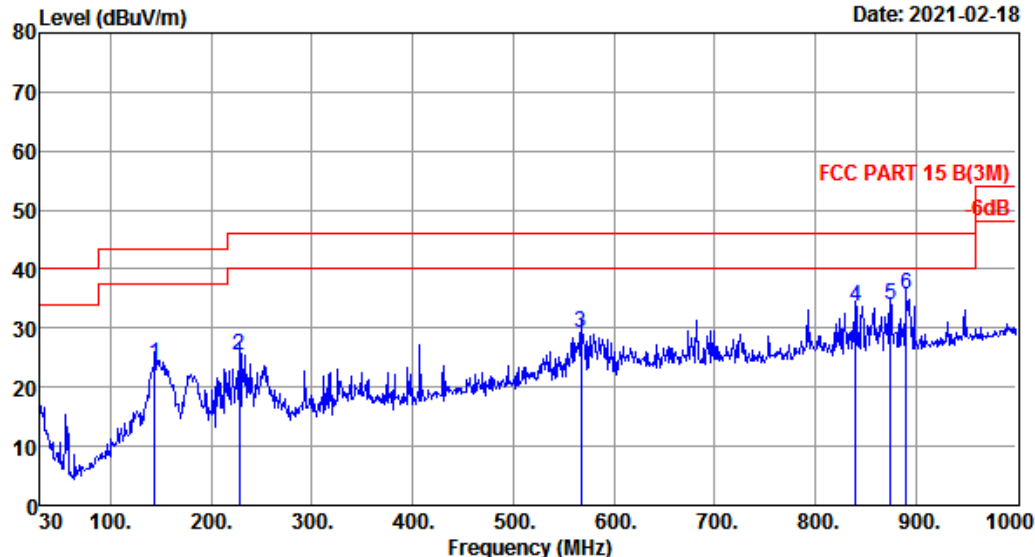
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Data: 2

File: \\Emc-966-1\\test data\\2021\\RFIL\\Le Sheng.EM6 (16)

Date: 2021-02-18



Site no. : 1# 966 Chamber Data no. : 2  
 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:27.1';Humi:50%;Press:101.52kPa  
 Engineer : Zzb  
 EUT : Robot Vacuum cleaner  
 Power : DC 14.4V From Battery  
 M/N : L2050  
 Test Mode : TX Mode  
 H18650CH-4S2P+RC500-KN-11630

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 143.49         | 11.97                   | 1.06                  | 10.99             | 24.02                         | 43.50             | 19.48          | QP     |
| 2 | 227.88         | 10.30                   | 1.50                  | 13.70             | 25.50                         | 46.00             | 20.50          | QP     |
| 3 | 567.38         | 19.87                   | 2.87                  | 6.59              | 29.33                         | 46.00             | 16.67          | QP     |
| 4 | 839.95         | 23.50                   | 3.71                  | 6.38              | 33.59                         | 46.00             | 12.41          | QP     |
| 5 | 874.87         | 23.85                   | 3.85                  | 6.28              | 33.98                         | 46.00             | 12.02          | QP     |
| 6 | 890.39         | 23.90                   | 3.87                  | 7.88              | 35.65                         | 46.00             | 10.35          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

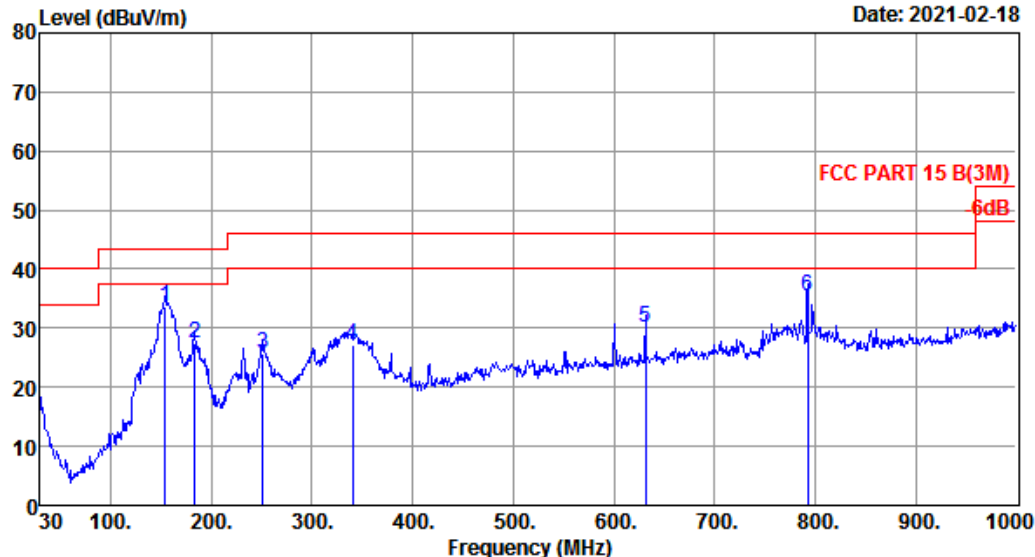
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Data: 3

File: \\Emc-966-1\test data\2021\RFIL\Le Sheng.EM6 (16)

Date: 2021-02-18



Site no. : 1# 966 Chamber Data no. : 3  
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:27.1';Humi:50%;Press:101.52kPa  
 Engineer : Zzb  
 EUT : Robot Vacuum cleaner  
 Power : AC 120V/60Hz  
 M/N : L2050  
 Test Mode : TX Mode  
 H18650CH-4S2P+RC500-KN-11630  
 MS1

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 154.16         | 11.36                   | 1.11                  | 21.09             | 33.56                         | 43.50             | 9.94           | QP     |
| 2 | 183.26         | 9.32                    | 1.22                  | 17.00             | 27.54                         | 43.50             | 15.96          | QP     |
| 3 | 251.16         | 12.62                   | 1.63                  | 11.58             | 25.83                         | 46.00             | 20.17          | QP     |
| 4 | 340.40         | 14.70                   | 2.05                  | 10.43             | 27.18                         | 46.00             | 18.82          | QP     |
| 5 | 631.40         | 21.03                   | 3.13                  | 5.93              | 30.09                         | 46.00             | 15.91          | QP     |
| 6 | 792.42         | 22.74                   | 3.55                  | 9.19              | 35.48                         | 46.00             | 10.52          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

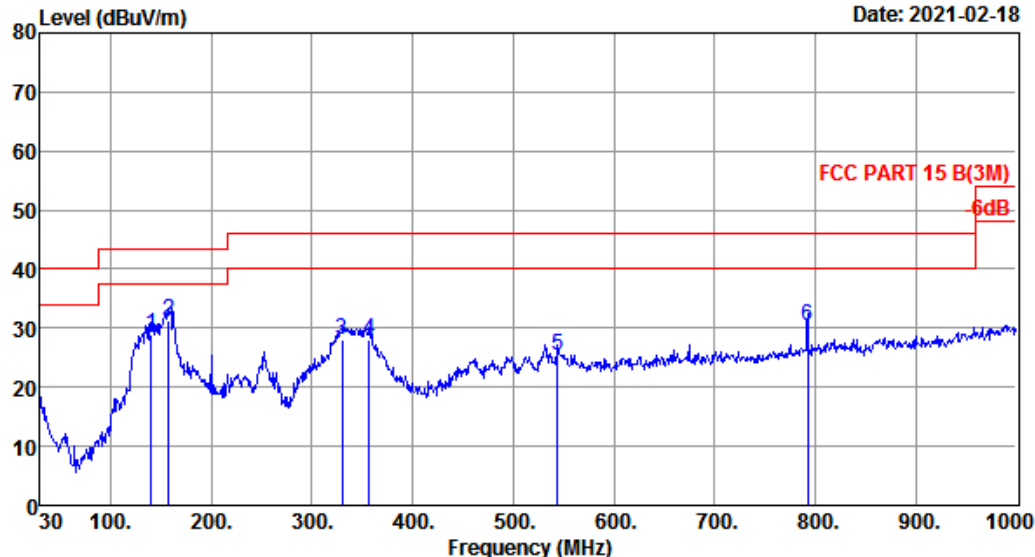
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Data: 4

File: \\Emc-966-1\test data\2021\RFIL\Le Sheng.EM6 (16)

Date: 2021-02-18



Site no. : 1# 966 Chamber Data no. : 4  
 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:27.1';Humi:50%;Press:101.52kPa  
 Engineer : Zzb  
 EUT : Robot Vacuum cleaner  
 Power : AC 120V/60Hz  
 M/N : L2050  
 Test Mode : TX Mode  
 H18650CH-4S2P+RC500-KN-11630  
 MS1

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBUV) | Emission<br>Level<br>(dBUV/m) | Limit<br>(dBUV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 140.58         | 12.37                   | 1.04                  | 15.58             | 28.99                         | 43.50             | 14.51          | QP     |
| 2 | 158.04         | 11.30                   | 1.13                  | 18.89             | 31.32                         | 43.50             | 12.18          | QP     |
| 3 | 329.73         | 14.60                   | 1.98                  | 11.38             | 27.96                         | 46.00             | 18.04          | QP     |
| 4 | 356.89         | 15.26                   | 2.15                  | 10.61             | 28.02                         | 46.00             | 17.98          | QP     |
| 5 | 544.10         | 19.06                   | 2.81                  | 3.43              | 25.30                         | 46.00             | 20.70          | QP     |
| 6 | 792.42         | 22.74                   | 3.55                  | 4.07              | 30.36                         | 46.00             | 15.64          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

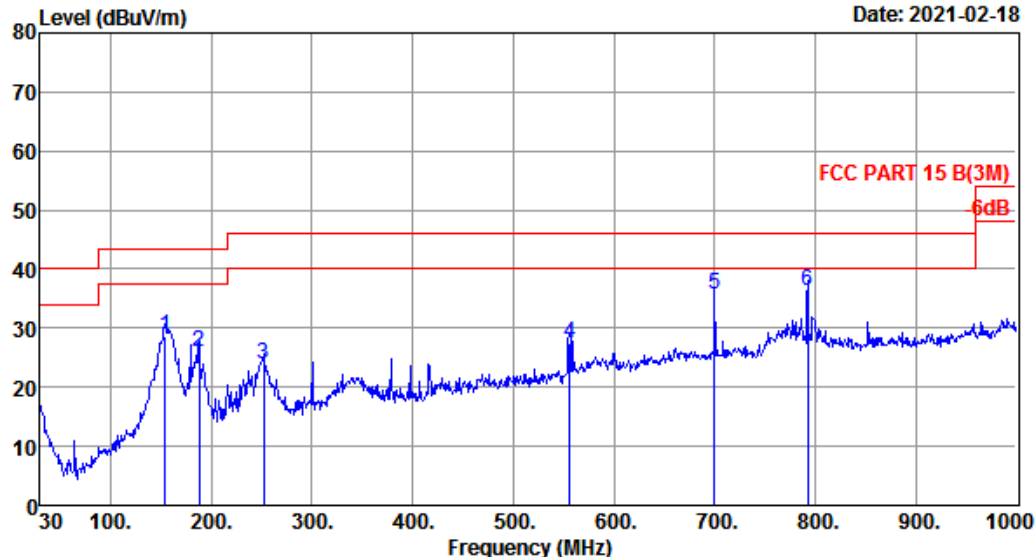
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Data: 5

File: \\Emc-966-1\\test data\\2021\\RFIL\\Le Sheng.EM6 (16)

Date: 2021-02-18



Site no. : 1# 966 Chamber Data no. : 5  
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:27.1';Humi:50%;Press:101.52kPa  
 Engineer : Zzb  
 EUT : Robot Vacuum cleaner  
 Power : DC 24V From Adapter Input AC 120V/60Hz  
 M/N : L2050  
 Test Mode : TX Mode  
 H18650CH-4S2P+RC500-KN-11630  
 DBS036A-2401200U

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 154.16         | 11.36                   | 1.11                  | 16.14             | 28.61                         | 43.50             | 14.89          | QP     |
| 2 | 188.11         | 9.02                    | 1.24                  | 15.62             | 25.88                         | 43.50             | 17.62          | QP     |
| 3 | 252.13         | 12.84                   | 1.64                  | 9.33              | 23.81                         | 46.00             | 22.19          | QP     |
| 4 | 555.74         | 19.48                   | 2.86                  | 5.02              | 27.36                         | 46.00             | 18.64          | QP     |
| 5 | 700.27         | 21.70                   | 3.28                  | 10.86             | 35.84                         | 46.00             | 10.16          | QP     |
| 6 | 792.42         | 22.74                   | 3.55                  | 9.91              | 36.20                         | 46.00             | 9.80           | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

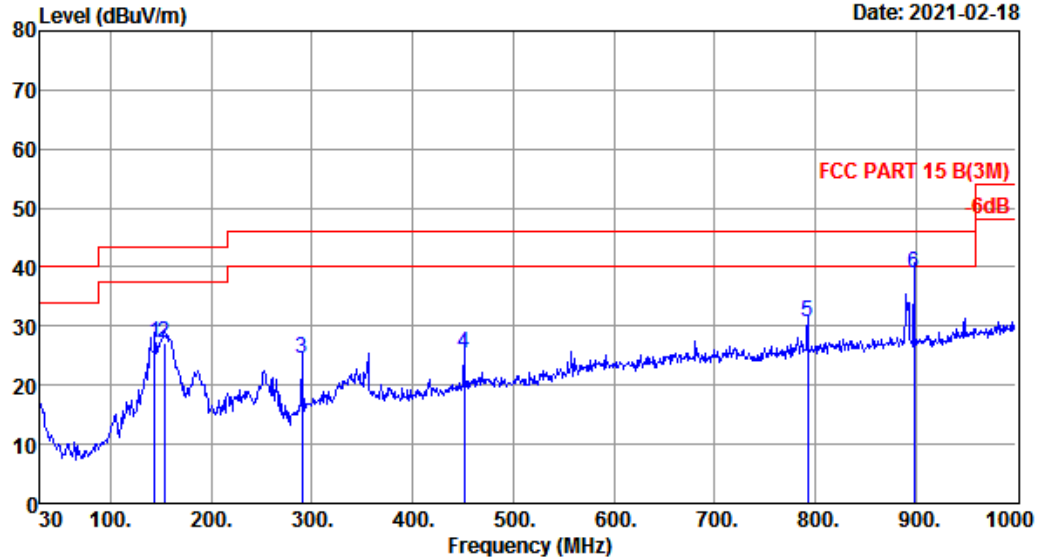
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Data: 6

File: \\Emc-966-1\test data\2021\RFIL\Le Sheng.EM6 (16)

Date: 2021-02-18



Site no. : 1# 966 Chamber Data no. : 6  
 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:27.1';Humi:50%;Press:101.52kPa  
 Engineer : Zzb  
 EUT : Robot Vacuum cleaner  
 Power : DC 24V From Adapter Input AC 120V/60Hz  
 M/N : L2050  
 Test Mode : TX Mode  
 H18650CH-4S2P+RC500-KN-11630  
 DBS036A-2401200U

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 143.49         | 11.97                   | 1.06                  | 14.05             | 27.08                         | 43.50             | 16.42          | QP     |
| 2 | 153.19         | 11.42                   | 1.10                  | 14.66             | 27.18                         | 43.50             | 16.32          | QP     |
| 3 | 289.96         | 13.20                   | 1.82                  | 9.56              | 24.58                         | 46.00             | 21.42          | QP     |
| 4 | 450.98         | 17.32                   | 2.55                  | 5.43              | 25.30                         | 46.00             | 20.70          | QP     |
| 5 | 792.42         | 22.74                   | 3.55                  | 4.46              | 30.75                         | 46.00             | 15.25          | QP     |
| 6 | 898.15         | 23.90                   | 3.88                  | 11.05             | 38.83                         | 46.00             | 7.17           | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

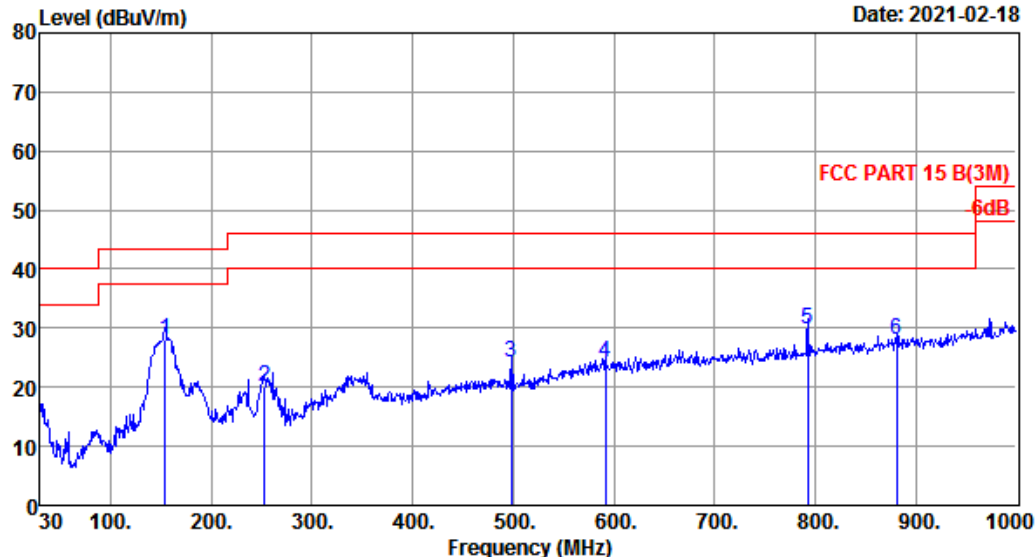
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Data: 7

File: \\Emc-966-1\\test data\\2021\\RFIL\\Le Sheng.EM6 (16)

Date: 2021-02-18



Site no. : 1# 966 Chamber Data no. : 7  
 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:27.1';Humi:50%;Press:101.52kPa  
 Engineer : Zzb  
 EUT : Robot Vacuum cleaner  
 Power : DC 24V From Adapter Input AC 120V/60Hz  
 M/N : L2050  
 Test Mode : TX Mode  
 H18650CH-4S2P+RC500-KN-11630  
 KA3601A-2401200US

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 154.16         | 11.36                   | 1.11                  | 15.57             | 28.04                         | 43.50             | 15.46          | QP     |
| 2 | 253.10         | 13.06                   | 1.65                  | 5.29              | 20.00                         | 46.00             | 26.00          | QP     |
| 3 | 498.51         | 18.26                   | 2.66                  | 3.42              | 24.34                         | 46.00             | 21.66          | QP     |
| 4 | 591.63         | 20.32                   | 2.95                  | 0.90              | 24.17                         | 46.00             | 21.83          | QP     |
| 5 | 792.42         | 22.74                   | 3.55                  | 3.41              | 29.70                         | 46.00             | 16.30          | QP     |
| 6 | 880.69         | 23.81                   | 3.88                  | 0.42              | 28.11                         | 46.00             | 17.89          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.



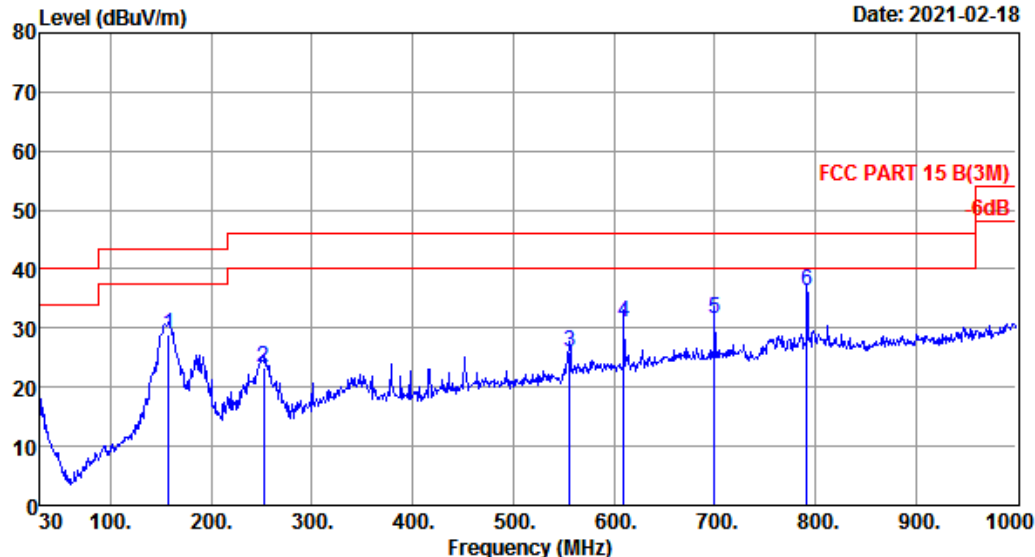
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Data: 8

File: \\Emc-966-1\\test data\\2021\\RFIL\\Le Sheng.EM6 (16)

Date: 2021-02-18



Site no. : 1# 966 Chamber Data no. : 8  
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:27.1';Humi:50%;Press:101.52kPa  
 Engineer : Zzb  
 EUT : Robot Vacuum cleaner  
 Power : DC 24V From Adapter Input AC 120V/60Hz  
 M/N : L2050  
 Test Mode : TX Mode  
 H18650CH-4S2P+RC500-KN-11630  
 KA3601A-2401200US

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 158.04         | 11.30                   | 1.13                  | 16.63             | 29.06                         | 43.50             | 14.44          | QP     |
| 2 | 252.13         | 12.84                   | 1.64                  | 8.85              | 23.33                         | 46.00             | 22.67          | QP     |
| 3 | 555.74         | 19.48                   | 2.86                  | 3.53              | 25.87                         | 46.00             | 20.13          | QP     |
| 4 | 610.06         | 20.60                   | 3.03                  | 7.32              | 30.95                         | 46.00             | 15.05          | QP     |
| 5 | 700.27         | 21.70                   | 3.28                  | 6.68              | 31.66                         | 46.00             | 14.34          | QP     |
| 6 | 791.45         | 22.72                   | 3.56                  | 9.90              | 36.18                         | 46.00             | 9.82           | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

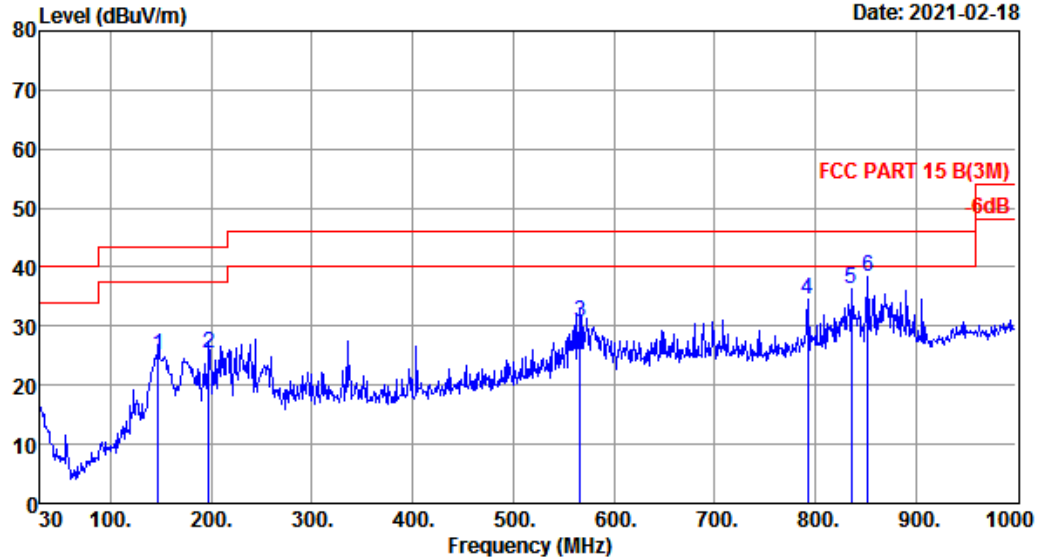
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Data: 9

File: \\Emc-966-1\test data\2021\RFIL\Le Sheng.EM6 (16)

Date: 2021-02-18



Site no. : 1# 966 Chamber Data no. : 9  
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL  
Limit : FCC PART 15 B(3M)  
Env. / Ins. : Temp:27.1';Humi:50%;Press:101.52kPa  
Engineer : Zzb  
EUT : Robot Vacuum cleaner  
Power : DC 14.52V From Battery  
M/N : L2050  
Test Mode : TX Mode  
ICR-26J-4S2P-V3+RC500-KN-11630

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 147.37         | 11.66                   | 1.07                  | 12.24             | 24.97                         | 43.50             | 18.53          | QP     |
| 2 | 197.81         | 8.56                    | 1.26                  | 15.55             | 25.37                         | 43.50             | 18.13          | QP     |
| 3 | 566.41         | 19.86                   | 2.87                  | 8.03              | 30.76                         | 46.00             | 15.24          | QP     |
| 4 | 792.42         | 22.74                   | 3.55                  | 8.14              | 34.43                         | 46.00             | 11.57          | QP     |
| 5 | 836.07         | 23.46                   | 3.71                  | 9.11              | 36.28                         | 46.00             | 9.72           | QP     |
| 6 | 852.56         | 23.35                   | 3.72                  | 11.20             | 38.27                         | 46.00             | 7.73           | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. The emission levels that are 20dB below the official limit are not reported.

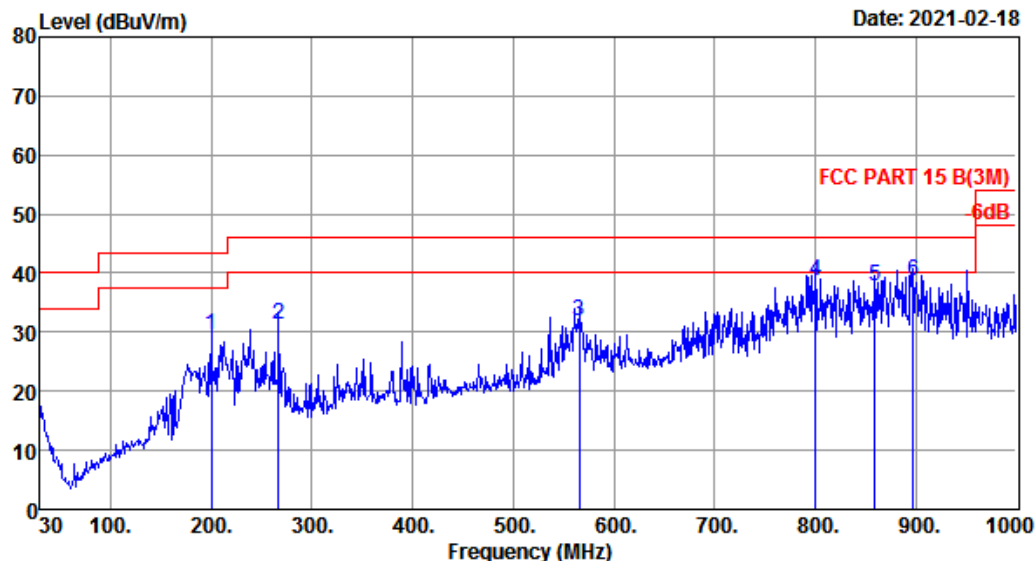
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Data: 10

File: \\Emc-966-1\test data\2021\RFIL\Le Sheng.EM6 (16)

Date: 2021-02-18



Site no. : 1# 966 Chamber Data no. : 10  
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:27.1';Humi:50%;Press:101.52kPa  
 Engineer : Zzb  
 EUT : Robot Vacuum cleaner  
 Power : DC 14.52V From Battery  
 M/N : L2050  
 Test Mode : TX Mode  
 ICR-26J-4S2P-V3+RC500-KN-11630

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 199.75         | 8.40                    | 1.28                  | 19.82             | 29.50                         | 43.50             | 14.00          | QP     |
| 2 | 266.68         | 13.30                   | 1.72                  | 16.21             | 31.23                         | 46.00             | 14.77          | QP     |
| 3 | 565.44         | 19.85                   | 2.87                  | 9.23              | 31.95                         | 46.00             | 14.05          | QP     |
| 4 | 800.18         | 22.90                   | 3.58                  | 12.26             | 38.74                         | 46.00             | 7.26           | QP     |
| 5 | 859.35         | 23.92                   | 3.76                  | 9.97              | 37.65                         | 46.00             | 8.35           | QP     |
| 6 | 897.18         | 23.90                   | 3.88                  | 10.89             | 38.67                         | 46.00             | 7.33           | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

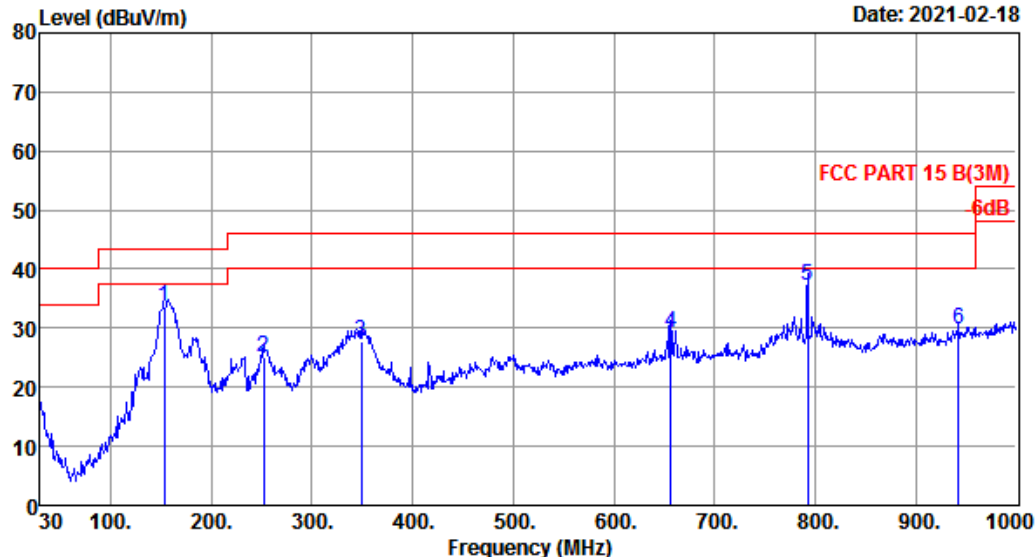
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Data: 11

File: \\Emc-966-1\\test data\\2021\\RFIL\\Le Sheng.EM6 (16)

Date: 2021-02-18



Site no. : 1# 966 Chamber Data no. : 11  
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:27.1';Humi:50%;Press:101.52kPa  
 Engineer : Zzb  
 EUT : Robot Vacuum cleaner  
 Power : AC 120V/60Hz  
 M/N : L2050  
 Test Mode : TX Mode  
 ICR-26J-4S2P-V3+RC500-KN-11630  
 MS1

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 153.19         | 11.42                   | 1.10                  | 21.10             | 33.62                         | 43.50             | 9.88           | QP     |
| 2 | 252.13         | 12.84                   | 1.64                  | 10.65             | 25.13                         | 46.00             | 20.87          | QP     |
| 3 | 349.13         | 15.33                   | 2.10                  | 10.25             | 27.68                         | 46.00             | 18.32          | QP     |
| 4 | 656.62         | 21.54                   | 3.23                  | 4.50              | 29.27                         | 46.00             | 16.73          | QP     |
| 5 | 792.42         | 22.74                   | 3.55                  | 10.91             | 37.20                         | 46.00             | 8.80           | QP     |
| 6 | 942.77         | 24.46                   | 4.42                  | 0.93              | 29.81                         | 46.00             | 16.19          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

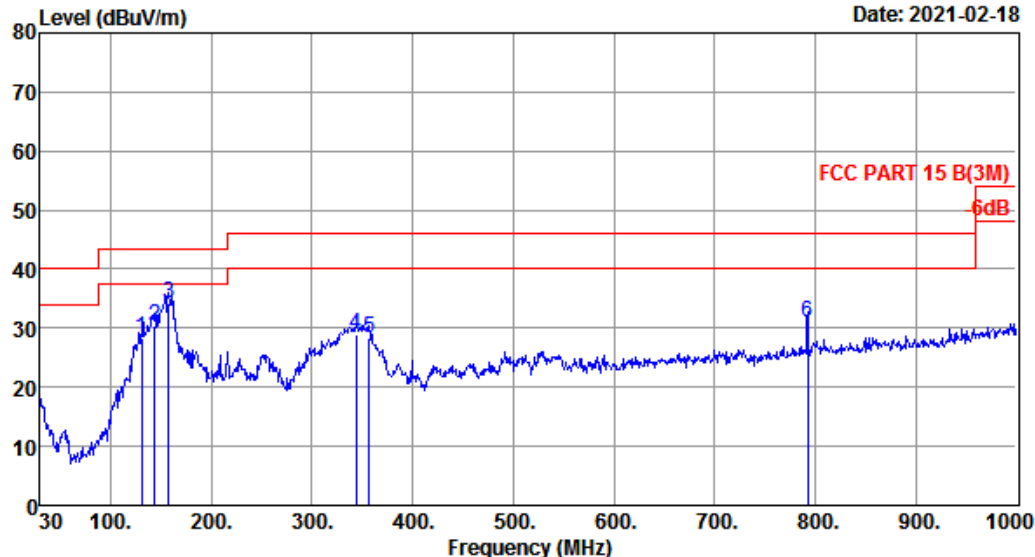
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Data: 12

File: \\Emc-966-1\\test data\\2021\\RFIL\\Le Sheng.EM6 (16)

Date: 2021-02-18



Site no. : 1# 966 Chamber Data no. : 12  
 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:27.1';Humi:50%;Press:101.52kPa  
 Engineer : Zzb  
 EUT : Robot Vacuum cleaner  
 Power : AC 120V/60Hz  
 M/N : L2050  
 Test Mode : TX Mode  
 ICR-26J-4S2P-V3+RC500-KN-11630  
 MS1

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 130.88         | 11.68                   | 0.98                  | 15.78             | 28.44                         | 43.50             | 15.06          | QP     |
| 2 | 143.49         | 11.97                   | 1.06                  | 17.33             | 30.36                         | 43.50             | 13.14          | QP     |
| 3 | 158.04         | 11.30                   | 1.13                  | 21.67             | 34.10                         | 43.50             | 9.40           | QP     |
| 4 | 344.28         | 14.98                   | 2.07                  | 11.79             | 28.84                         | 46.00             | 17.16          | QP     |
| 5 | 356.89         | 15.26                   | 2.15                  | 10.89             | 28.30                         | 46.00             | 17.70          | QP     |
| 6 | 792.42         | 22.74                   | 3.55                  | 4.57              | 30.86                         | 46.00             | 15.14          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

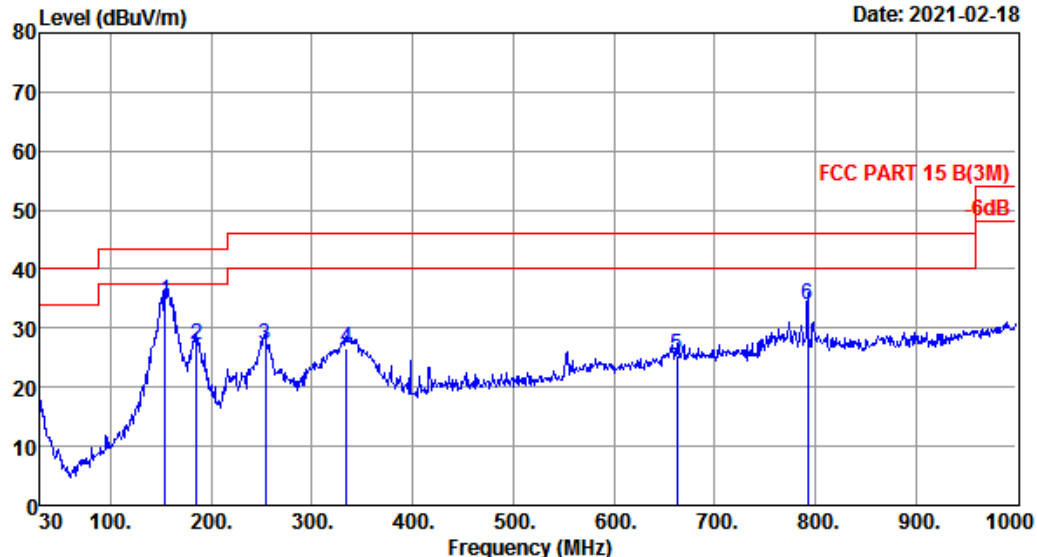
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Data: 13

File: \\Emc-966-1\\test data\\2021\\RFIL\\Le Sheng.EM6 (16)

Date: 2021-02-18



Site no. : 1# 966 Chamber Data no. : 13  
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:27.1';Humi:50%;Press:101.52kPa  
 Engineer : Zzb  
 EUT : Robot Vacuum cleaner  
 Power : DC 24V From Adapter Input AC 120V/60Hz  
 M/N : L2050  
 Test Mode : TX Mode  
 ICR-26J-4S2P-V3+RC500-KN-11630  
 KA3601A-2401200US

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 154.16         | 11.36                   | 1.11                  | 22.04             | 34.51                         | 43.50             | 8.99           | QP     |
| 2 | 185.20         | 9.20                    | 1.23                  | 16.75             | 27.18                         | 43.50             | 16.32          | QP     |
| 3 | 254.07         | 13.28                   | 1.65                  | 12.16             | 27.09                         | 46.00             | 18.91          | QP     |
| 4 | 334.58         | 14.65                   | 2.02                  | 10.04             | 26.71                         | 46.00             | 19.29          | QP     |
| 5 | 662.44         | 21.63                   | 3.23                  | 0.50              | 25.36                         | 46.00             | 20.64          | QP     |
| 6 | 792.42         | 22.74                   | 3.55                  | 7.65              | 33.94                         | 46.00             | 12.06          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

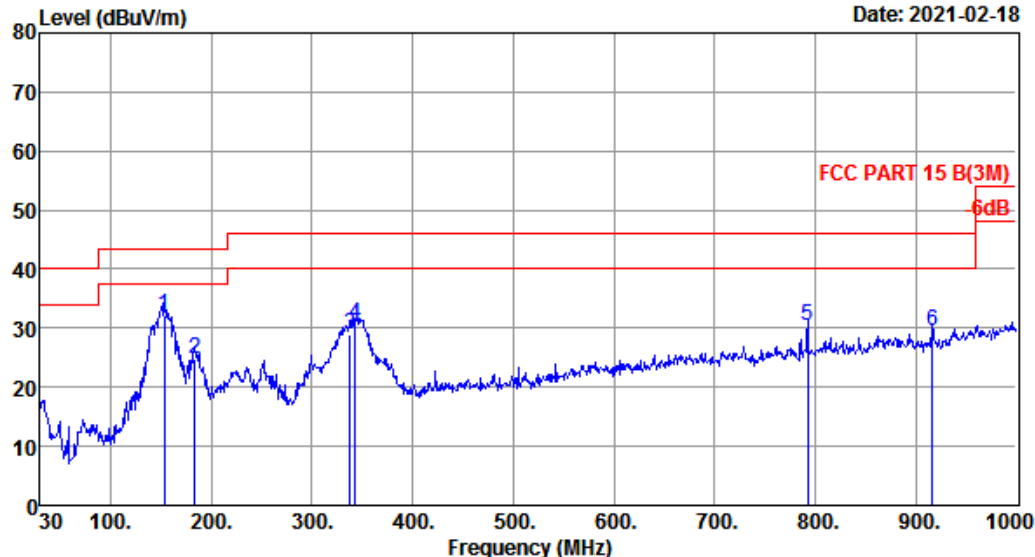
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Data: 14

File: \\Emc-966-1\\test data\\2021\\RFIL\\Le Sheng.EM6 (16)

Date: 2021-02-18



Site no. : 1# 966 Chamber Data no. : 14  
 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:27.1';Humi:50%;Press:101.52kPa  
 Engineer : Zzb  
 EUT : Robot Vacuum cleaner  
 Power : DC 24V From Adapter Input AC 120V/60Hz  
 M/N : L2050  
 Test Mode : TX Mode  
 ICR-26J-4S2P-V3+RC500-KN-11630  
 KA3601A-2401200US

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 153.19         | 11.42                   | 1.10                  | 19.72             | 32.24                         | 43.50             | 11.26          | QP     |
| 2 | 183.26         | 9.32                    | 1.22                  | 14.31             | 24.85                         | 43.50             | 18.65          | QP     |
| 3 | 337.49         | 14.67                   | 2.04                  | 12.24             | 28.95                         | 46.00             | 17.05          | QP     |
| 4 | 343.31         | 14.91                   | 2.07                  | 13.74             | 30.72                         | 46.00             | 15.28          | QP     |
| 5 | 792.42         | 22.74                   | 3.55                  | 4.11              | 30.40                         | 46.00             | 15.60          | QP     |
| 6 | 916.58         | 24.00                   | 3.99                  | 1.64              | 29.63                         | 46.00             | 16.37          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

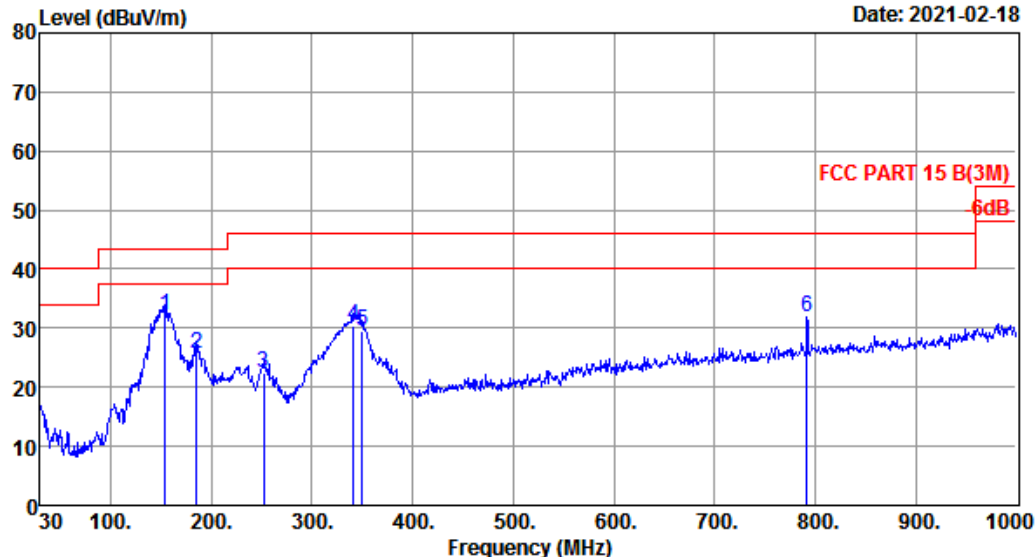
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Data: 15

File: \\Emc-966-1\\test data\\2021\\RFIL\\Le Sheng.EM6 (16)

Date: 2021-02-18



Site no. : 1# 966 Chamber Data no. : 15  
 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:27.1';Humi:50%;Press:101.52kPa  
 Engineer : Zzb  
 EUT : Robot Vacuum cleaner  
 Power : DC 24V From Adapter Input AC 120V/60Hz  
 M/N : L2050  
 Test Mode : TX Mode  
 ICR-26J-4S2P-V3+RC500-KN-11630  
 DBS036A-2401200U

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 154.16         | 11.36                   | 1.11                  | 19.61             | 32.08                         | 43.50             | 11.42          | QP     |
| 2 | 185.20         | 9.20                    | 1.23                  | 15.18             | 25.61                         | 43.50             | 17.89          | QP     |
| 3 | 252.13         | 12.84                   | 1.64                  | 8.04              | 22.52                         | 46.00             | 23.48          | QP     |
| 4 | 341.37         | 14.77                   | 2.06                  | 13.54             | 30.37                         | 46.00             | 15.63          | QP     |
| 5 | 350.10         | 15.40                   | 2.11                  | 11.90             | 29.41                         | 46.00             | 16.59          | QP     |
| 6 | 791.45         | 22.72                   | 3.56                  | 5.61              | 31.89                         | 46.00             | 14.11          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.



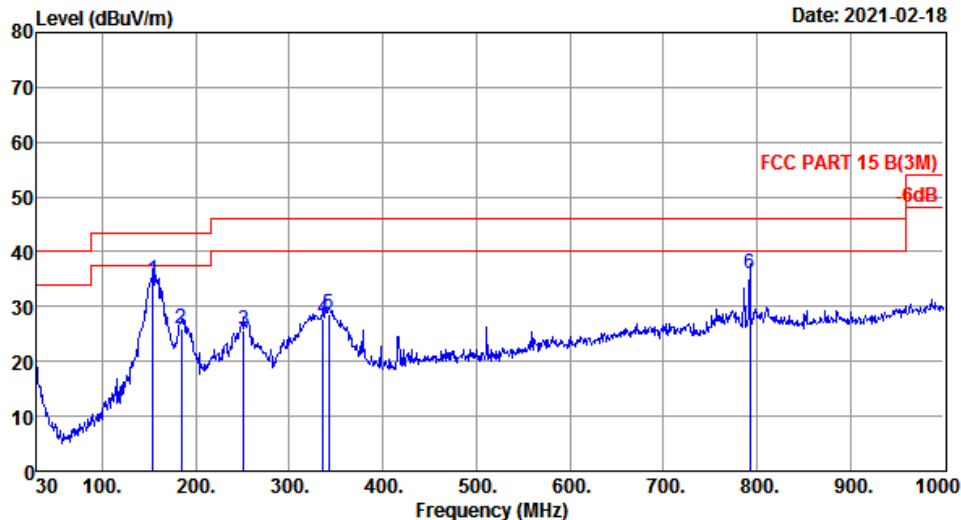
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Data: 16

File: \\Emc-966-1\test data\2021\RFIL\Le Sheng.EM6 (16)

Date: 2021-02-18



Site no. : 1# 966 Chamber Data no. : 16  
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:27.1';Humi:50%;Press:101.52kPa  
 Engineer : Zzb  
 EUT : Robot Vacuum cleaner  
 Power : DC 24V From Adapter Input AC 120V/60Hz  
 M/N : L2050  
 Test Mode : TX Mode  
 ICR-26J-4S2P-V3+RC500-KN-11630  
 DBS036A-2401200U

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 154.16         | 11.36                   | 1.11                  | 22.41             | 34.88                         | 43.50             | 8.62           | QP     |
| 2 | 184.23         | 9.26                    | 1.22                  | 15.41             | 25.89                         | 43.50             | 17.61          | QP     |
| 3 | 251.16         | 12.62                   | 1.63                  | 11.51             | 25.76                         | 46.00             | 20.24          | QP     |
| 4 | 336.52         | 14.66                   | 2.04                  | 11.16             | 27.86                         | 46.00             | 18.14          | QP     |
| 5 | 342.34         | 14.84                   | 2.06                  | 11.81             | 28.71                         | 46.00             | 17.29          | QP     |
| 6 | 792.42         | 22.74                   | 3.55                  | 9.58              | 35.87                         | 46.00             | 10.13          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

## Note:

1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All channels had been pre-test, only the worst case was reported.

## 4. AC POWER LINE CONDUCTED EMISSIONS

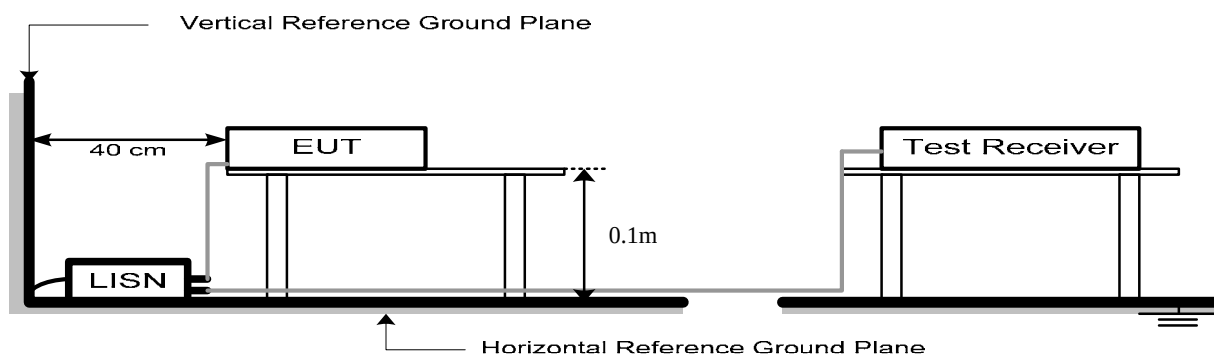
### 4.1. Limit

| Frequency |   |        | Maximum RF Line Voltage          |                               |
|-----------|---|--------|----------------------------------|-------------------------------|
|           |   |        | Quasi-Peak Level<br>dB( $\mu$ V) | Average Level<br>dB( $\mu$ V) |
| 150kHz    | ~ | 500kHz | 66 ~ 56*                         | 56 ~ 46*                      |
| 500kHz    | ~ | 5MHz   | 56                               | 46                            |
| 5MHz      | ~ | 30MHz  | 60                               | 50                            |

Note:

1. \* Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

### 4.2. Test Setup



### 4.3. Spectrum Analyzer Setting

| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 9KHz     |
| VBW                 | 9KHz     |
| Start frequency     | 150KHz   |
| Stop frequency      | 30MHz    |
| Sweep Time          | Auto     |
| Detector            | QP/AVG   |
| Trace Mode          | Max Hold |

### 4.4. Test Procedure

- a. The EUT was placed on a non-metallic table, 10cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 9.3.
- f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
- g. Record the results in the test report.

## 4.5. Test Result

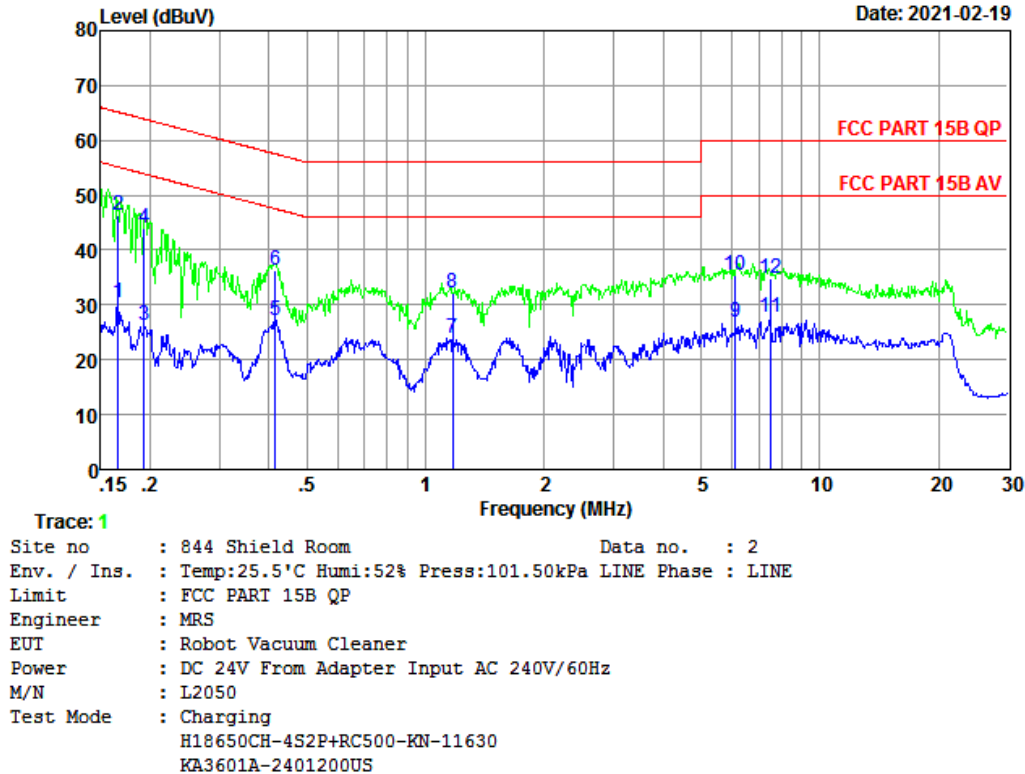
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Data: 2

File: \\Emc-ce-1\Test data\2021\RF\J\Joy Intelligent\EM6 (40)

Date: 2021-02-19



|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1659         | 9.79                   | 9.69                  | 10.80             | 30.28                       | 55.16            | 24.88          | Average |
| 2  | 0.1659         | 9.79                   | 9.69                  | 26.73             | 46.21                       | 65.16            | 18.95          | QP      |
| 3  | 0.1934         | 9.80                   | 9.77                  | 6.64              | 26.21                       | 53.89            | 27.68          | Average |
| 4  | 0.1934         | 9.80                   | 9.77                  | 24.33             | 43.90                       | 63.89            | 19.99          | QP      |
| 5  | 0.4148         | 9.88                   | 9.92                  | 7.47              | 27.27                       | 47.55            | 20.28          | Average |
| 6  | 0.4148         | 9.88                   | 9.92                  | 16.41             | 36.21                       | 57.55            | 21.34          | QP      |
| 7  | 1.1719         | 9.79                   | 9.94                  | 4.31              | 24.04                       | 46.00            | 21.96          | Average |
| 8  | 1.1719         | 9.79                   | 9.94                  | 12.34             | 32.07                       | 56.00            | 23.93          | QP      |
| 9  | 6.1209         | 9.86                   | 10.03                 | 6.98              | 26.87                       | 50.00            | 23.13          | Average |
| 10 | 6.1209         | 9.86                   | 10.03                 | 15.50             | 35.39                       | 60.00            | 24.61          | QP      |
| 11 | 7.4860         | 9.86                   | 10.04                 | 7.81              | 27.71                       | 50.00            | 22.29          | Average |
| 12 | 7.4860         | 9.86                   | 10.04                 | 14.95             | 34.85                       | 60.00            | 25.15          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.

2. Margin=Limit - Emission Level.

3. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.

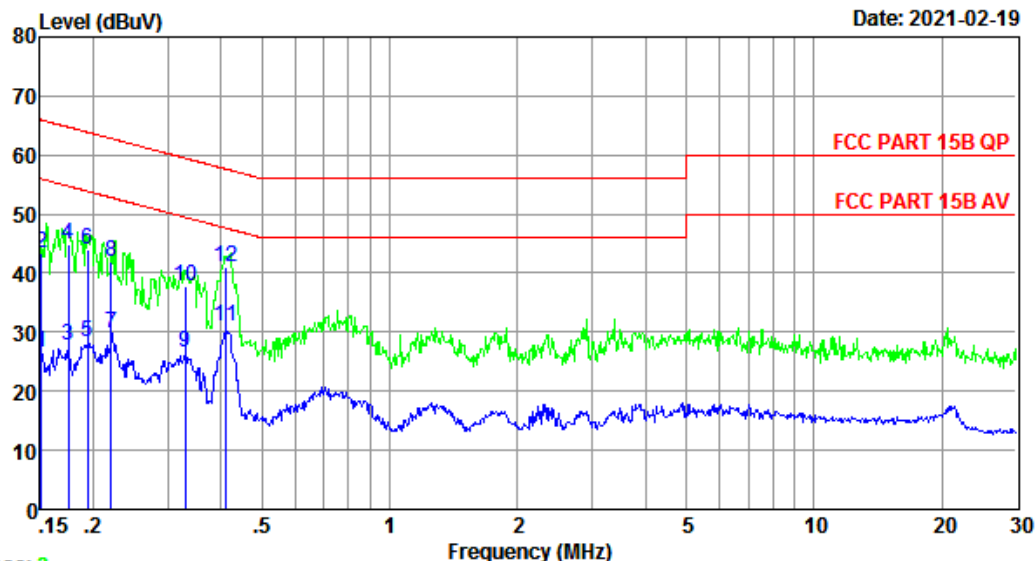
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Data: 4

File: \\Emc-ce-1\Test data\2021\RF\J\Joy Intelligent.EM6 (40)

Date: 2021-02-19



Trace: 3

Site no : 844 Shield Room Data no. : 4  
 Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : NEUTRAL  
 Limit : FCC PART 15B QP  
 Engineer : MRS  
 EUT : Robot Vacuum Cleaner  
 Power : DC 24V From Adapter Input AC 240V/60Hz  
 M/N : L2050  
 Test Mode : Charging  
 H18650CH-4S2P+RC500-KN-11630  
 KA3601A-2401200US

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1508         | 9.62                   | 9.69                  | 7.27              | 26.58                       | 55.96            | 29.38          | Average |
| 2  | 0.1508         | 9.62                   | 9.69                  | 24.20             | 43.51                       | 65.96            | 22.45          | QP      |
| 3  | 0.1749         | 9.69                   | 9.77                  | 8.41              | 27.87                       | 54.72            | 26.85          | Average |
| 4  | 0.1749         | 9.69                   | 9.77                  | 25.33             | 44.79                       | 64.72            | 19.93          | QP      |
| 5  | 0.1945         | 9.69                   | 9.77                  | 8.96              | 28.42                       | 53.84            | 25.42          | Average |
| 6  | 0.1945         | 9.69                   | 9.77                  | 24.43             | 43.89                       | 63.84            | 19.95          | QP      |
| 7  | 0.2208         | 9.70                   | 9.84                  | 10.33             | 29.87                       | 52.79            | 22.92          | Average |
| 8  | 0.2208         | 9.70                   | 9.84                  | 22.27             | 41.81                       | 62.79            | 20.98          | QP      |
| 9  | 0.3303         | 9.74                   | 9.92                  | 6.80              | 26.46                       | 49.44            | 22.98          | Average |
| 10 | 0.3303         | 9.74                   | 9.92                  | 18.20             | 37.86                       | 59.44            | 21.58          | QP      |
| 11 | 0.4127         | 9.76                   | 9.92                  | 11.25             | 30.93                       | 47.59            | 16.66          | Average |
| 12 | 0.4127         | 9.76                   | 9.92                  | 21.29             | 40.97                       | 57.59            | 16.62          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin=Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector,  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.

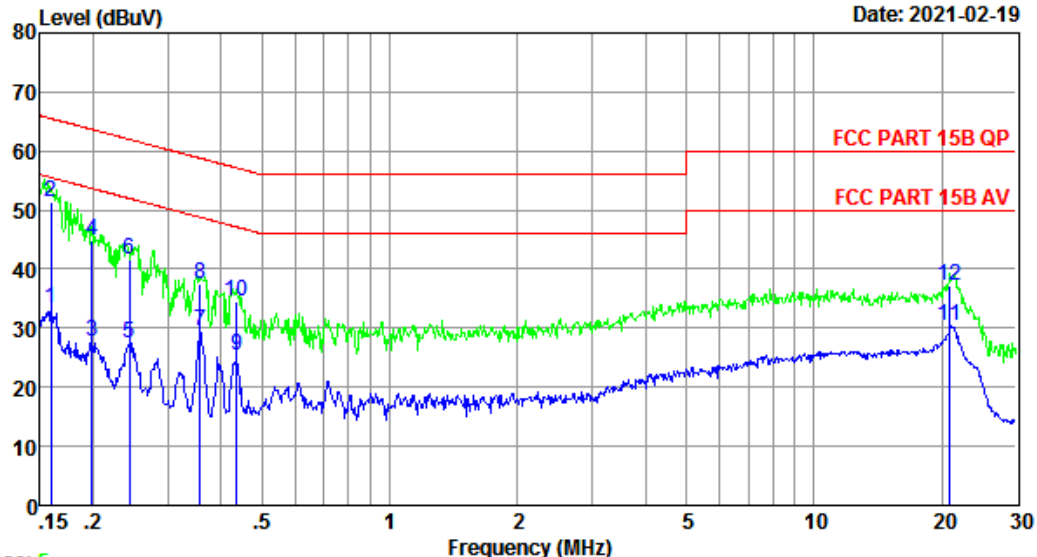
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Data: 6

File: \\Emc-ce-1\Test data\2021\RF\J\Joy Intelligent.EM6 (40)

Date: 2021-02-19



Trace: 5

Site no : 844 Shield Room Data no. : 6  
Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : LINE  
Limit : FCC PART 15B QP  
Engineer : MRS  
EUT : Robot Vacuum Cleaner  
Power : DC 24V From Adapter Input AC 120V/60Hz  
M/N : L2050  
Test Mode : Charging  
H18650CH-4S2P+RC500-KN-11630  
KA3601A-2401200US

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1590         | 9.79                   | 9.69                  | 13.95             | 33.43                       | 55.52            | 22.09          | Average |
| 2  | 0.1590         | 9.79                   | 9.69                  | 31.99             | 51.47                       | 65.52            | 14.05          | QP      |
| 3  | 0.1986         | 9.80                   | 9.77                  | 8.21              | 27.78                       | 53.67            | 25.89          | Average |
| 4  | 0.1986         | 9.80                   | 9.77                  | 25.33             | 44.90                       | 63.67            | 18.77          | QP      |
| 5  | 0.2429         | 9.70                   | 9.92                  | 7.81              | 27.43                       | 52.00            | 24.57          | Average |
| 6  | 0.2429         | 9.70                   | 9.92                  | 22.00             | 41.62                       | 62.00            | 20.38          | QP      |
| 7  | 0.3577         | 9.76                   | 9.92                  | 9.75              | 29.43                       | 48.78            | 19.35          | Average |
| 8  | 0.3577         | 9.76                   | 9.92                  | 17.79             | 37.47                       | 58.78            | 21.31          | QP      |
| 9  | 0.4351         | 9.88                   | 9.92                  | 5.61              | 25.41                       | 47.15            | 21.74          | Average |
| 10 | 0.4351         | 9.88                   | 9.92                  | 14.67             | 34.47                       | 57.15            | 22.68          | QP      |
| 11 | 20.9243        | 9.87                   | 10.16                 | 10.43             | 30.46                       | 50.00            | 19.54          | Average |
| 12 | 20.9243        | 9.87                   | 10.16                 | 17.19             | 37.22                       | 60.00            | 22.78          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. Margin=Limit - Emission Level.  
3. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.

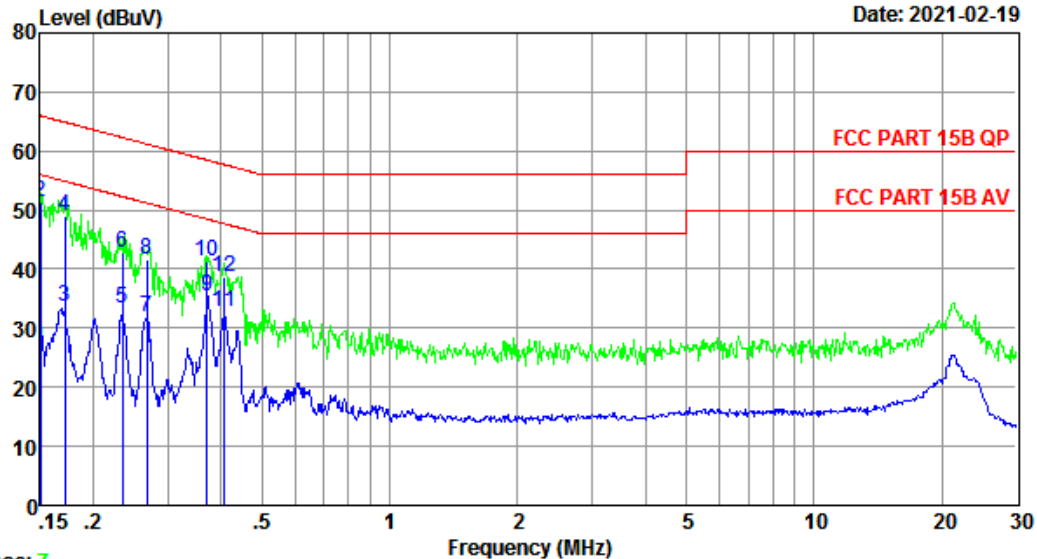
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Data: 8

File: \\Emc-ce-1\Test data\2021\RF\J\Joy Intelligent.EM6 (40)

Date: 2021-02-19



Trace: 7

Site no : 844 Shield Room Data no. : 8  
Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : NEUTRAL  
Limit : FCC PART 15B QP  
Engineer : MRS  
EUT : Robot Vacuum Cleaner  
Power : DC 24V From Adapter Input AC 120V/60Hz  
M/N : L2050  
Test Mode : Charging  
H18650CH-4S2P+RC500-KN-11630  
KA3601A-2401200US

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1500         | 9.62                   | 9.69                  | 7.28              | 26.59                       | 56.00            | 29.41          | Average |
| 2  | 0.1500         | 9.62                   | 9.69                  | 32.20             | 51.51                       | 66.00            | 14.49          | QP      |
| 3  | 0.1712         | 9.62                   | 9.69                  | 14.26             | 33.57                       | 54.90            | 21.33          | Average |
| 4  | 0.1712         | 9.62                   | 9.69                  | 29.62             | 48.93                       | 64.90            | 15.97          | QP      |
| 5  | 0.2341         | 9.71                   | 9.92                  | 13.63             | 33.26                       | 52.30            | 19.04          | Average |
| 6  | 0.2341         | 9.71                   | 9.92                  | 23.29             | 42.92                       | 62.30            | 19.38          | QP      |
| 7  | 0.2672         | 9.72                   | 9.92                  | 12.14             | 31.78                       | 51.20            | 19.42          | Average |
| 8  | 0.2672         | 9.72                   | 9.92                  | 22.01             | 41.65                       | 61.20            | 19.55          | QP      |
| 9  | 0.3712         | 9.75                   | 9.92                  | 15.79             | 35.46                       | 48.47            | 13.01          | Average |
| 10 | 0.3712         | 9.75                   | 9.92                  | 21.74             | 41.41                       | 58.47            | 17.06          | QP      |
| 11 | 0.4061         | 9.76                   | 9.92                  | 13.11             | 32.79                       | 47.73            | 14.94          | Average |
| 12 | 0.4061         | 9.76                   | 9.92                  | 19.03             | 38.71                       | 57.73            | 19.02          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. Margin=Limit - Emission Level.  
3. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.

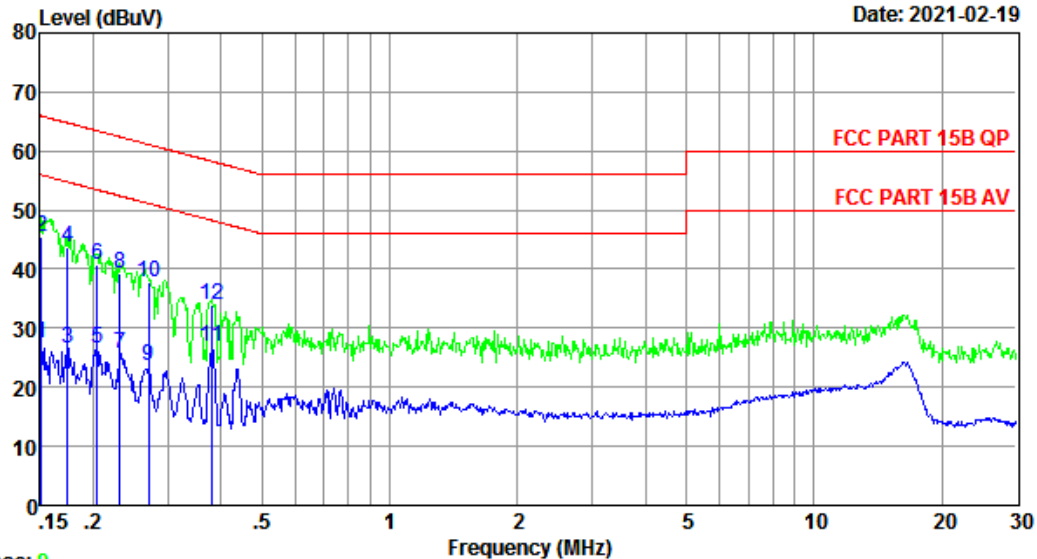
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Data: 10

File: \\Emc-ce-1\Test data\2021\RF\J\Joy Intelligent.EM6 (40)

Date: 2021-02-19



Trace: 9

Site no : 844 Shield Room Data no. : 10  
Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : NEUTRAL  
Limit : FCC PART 15B QP  
Engineer : MRS  
EUT : Robot Vacuum Cleaner  
Power : DC 24V From Adapter Input AC 120V/60Hz  
M/N : L2050  
Test Mode : Charging  
H18650CH-4S2P+RC500-KN-11630  
DBS036A-2401200U

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1508         | 9.62                   | 9.69                  | 8.28              | 27.59                       | 55.96            | 28.37          | Average |
| 2  | 0.1508         | 9.62                   | 9.69                  | 26.20             | 45.51                       | 65.96            | 20.45          | QP      |
| 3  | 0.1740         | 9.69                   | 9.77                  | 7.07              | 26.53                       | 54.77            | 28.24          | Average |
| 4  | 0.1740         | 9.69                   | 9.77                  | 24.33             | 43.79                       | 64.77            | 20.98          | QP      |
| 5  | 0.2040         | 9.70                   | 9.84                  | 7.07              | 26.61                       | 53.45            | 26.84          | Average |
| 6  | 0.2040         | 9.70                   | 9.84                  | 21.13             | 40.67                       | 63.45            | 22.78          | QP      |
| 7  | 0.2316         | 9.70                   | 9.84                  | 6.29              | 25.83                       | 52.39            | 26.56          | Average |
| 8  | 0.2316         | 9.70                   | 9.84                  | 19.67             | 39.21                       | 62.39            | 23.18          | QP      |
| 9  | 0.2701         | 9.72                   | 9.92                  | 3.93              | 23.57                       | 51.12            | 27.55          | Average |
| 10 | 0.2701         | 9.72                   | 9.92                  | 18.01             | 37.65                       | 61.12            | 23.47          | QP      |
| 11 | 0.3811         | 9.75                   | 9.92                  | 7.24              | 26.91                       | 48.25            | 21.34          | Average |
| 12 | 0.3811         | 9.75                   | 9.92                  | 14.30             | 33.97                       | 58.25            | 24.28          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. Margin=Limit - Emission Level.  
3. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.



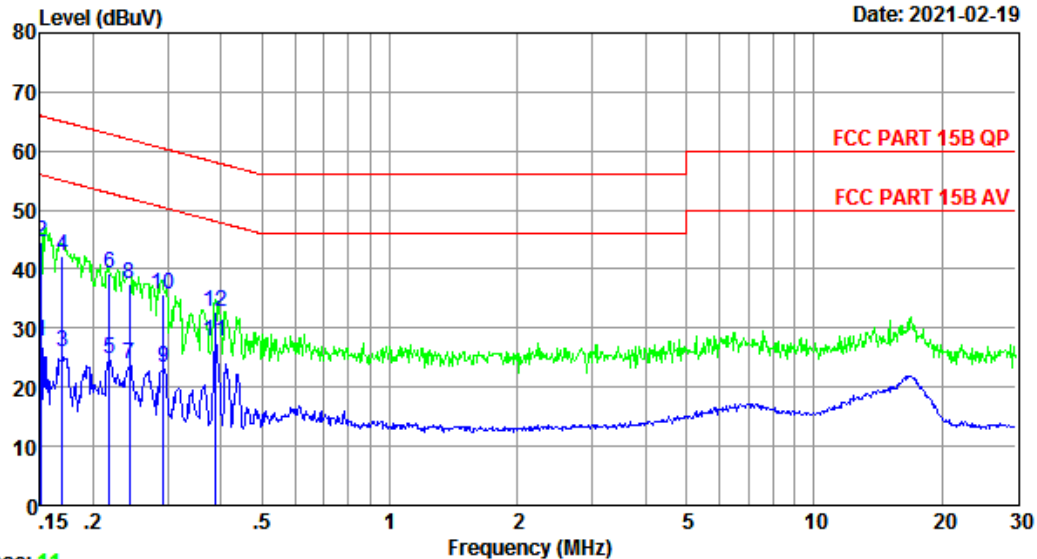
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Data: 12

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Date: 2021-02-19



Trace: 11

Site no : 844 Shield Room Data no. : 12  
 Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : LINE  
 Limit : FCC PART 15B QP  
 Engineer : MRS  
 EUT : Robot Vacuum Cleaner  
 Power : DC 24V From Adapter Input AC 120V/60Hz  
 M/N : L2050  
 Test Mode : Charging  
 H18650CH-4S2P+RC500-KN-11630  
 DBS036A-2401200U

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1508         | 9.79                   | 9.69                  | 8.13              | 27.61                       | 55.96            | 28.35          | Average |
| 2  | 0.1508         | 9.79                   | 9.69                  | 25.19             | 44.67                       | 65.96            | 21.29          | QP      |
| 3  | 0.1694         | 9.79                   | 9.69                  | 6.64              | 26.12                       | 54.99            | 28.87          | Average |
| 4  | 0.1694         | 9.79                   | 9.69                  | 22.69             | 42.17                       | 64.99            | 22.82          | QP      |
| 5  | 0.2185         | 9.75                   | 9.84                  | 5.31              | 24.90                       | 52.88            | 27.98          | Average |
| 6  | 0.2185         | 9.75                   | 9.84                  | 19.69             | 39.28                       | 62.88            | 23.60          | QP      |
| 7  | 0.2429         | 9.70                   | 9.92                  | 4.34              | 23.96                       | 52.00            | 28.04          | Average |
| 8  | 0.2429         | 9.70                   | 9.92                  | 17.90             | 37.52                       | 62.00            | 24.48          | QP      |
| 9  | 0.2924         | 9.65                   | 9.92                  | 3.64              | 23.21                       | 50.46            | 27.25          | Average |
| 10 | 0.2924         | 9.65                   | 9.92                  | 16.10             | 35.67                       | 60.46            | 24.79          | QP      |
| 11 | 0.3893         | 9.84                   | 9.92                  | 7.99              | 27.75                       | 48.08            | 20.33          | Average |
| 12 | 0.3893         | 9.84                   | 9.92                  | 12.95             | 32.71                       | 58.08            | 25.37          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin=Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector,  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.



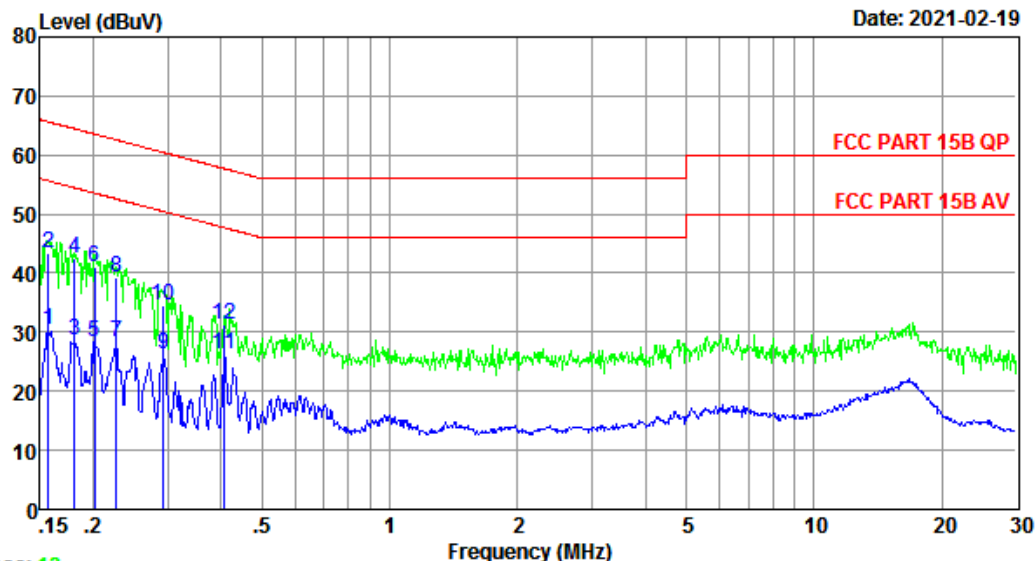
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Data: 14

File: \\Emc-ce-1\Test data\2021\RF\J\Joy Intelligent.EM6 (40)

Date: 2021-02-19



Trace: 13

Site no : 844 Shield Room Data no. : 14  
 Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : LINE  
 Limit : FCC PART 15B QP  
 Engineer : MRS  
 EUT : Robot Vacuum Cleaner  
 Power : DC 24V From Adapter Input AC 240V/60Hz  
 M/N : L2050  
 Test Mode : Charging  
 H18650CH-4S2P+RC500-KN-11630  
 DBS036A-2401200U

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBUV) | Emission<br>Level<br>(dBUV) | Limits<br>(dBUV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1565         | 9.79                   | 9.69                  | 10.92             | 30.40                       | 55.65            | 25.25          | Average |
| 2  | 0.1565         | 9.79                   | 9.69                  | 23.99             | 43.47                       | 65.65            | 22.18          | QP      |
| 3  | 0.1806         | 9.80                   | 9.77                  | 8.95              | 28.52                       | 54.46            | 25.94          | Average |
| 4  | 0.1806         | 9.80                   | 9.77                  | 23.00             | 42.57                       | 64.46            | 21.89          | QP      |
| 5  | 0.2018         | 9.80                   | 9.77                  | 8.72              | 28.29                       | 53.54            | 25.25          | Average |
| 6  | 0.2018         | 9.80                   | 9.77                  | 21.43             | 41.00                       | 63.54            | 22.54          | QP      |
| 7  | 0.2268         | 9.75                   | 9.84                  | 8.78              | 28.37                       | 52.57            | 24.20          | Average |
| 8  | 0.2268         | 9.75                   | 9.84                  | 19.67             | 39.26                       | 62.57            | 23.31          | QP      |
| 9  | 0.2924         | 9.65                   | 9.92                  | 6.63              | 26.20                       | 50.46            | 24.26          | Average |
| 10 | 0.2924         | 9.65                   | 9.92                  | 15.01             | 34.58                       | 60.46            | 25.88          | QP      |
| 11 | 0.4083         | 9.84                   | 9.92                  | 6.56              | 26.32                       | 47.68            | 21.36          | Average |
| 12 | 0.4083         | 9.84                   | 9.92                  | 11.61             | 31.37                       | 57.68            | 26.31          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin=Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector,  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.

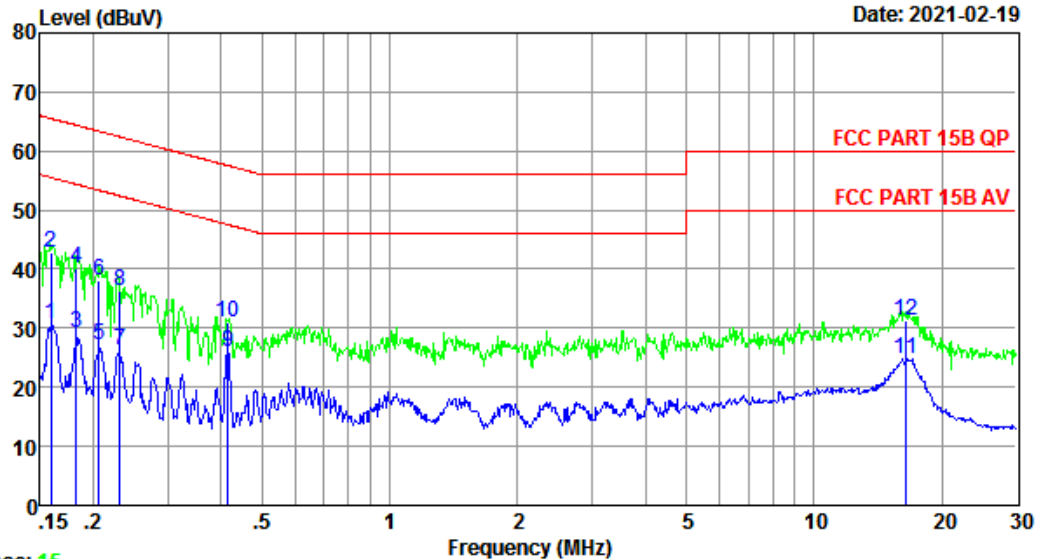
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Data: 16

File: \\Emc-ce-1\Test data\2021\RF\J\Joy Intelligent.EM6 (40)

Date: 2021-02-19



Trace: 15

Site no : 844 Shield Room Data no. : 16  
Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : NEUTRAL  
Limit : FCC PART 15B QP  
Engineer : MRS  
EUT : Robot Vacuum Cleaner  
Power : DC 24V From Adapter Input AC 240V/60Hz  
M/N : L2050  
Test Mode : Charging  
H18650CH-4S2P+RC500-KN-11630  
DBS036A-2401200U

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1590         | 9.62                   | 9.69                  | 11.40             | 30.71                       | 55.52            | 24.81          | Average |
| 2  | 0.1590         | 9.62                   | 9.69                  | 23.46             | 42.77                       | 65.52            | 22.75          | QP      |
| 3  | 0.1825         | 9.69                   | 9.77                  | 9.65              | 29.11                       | 54.37            | 25.26          | Average |
| 4  | 0.1825         | 9.69                   | 9.77                  | 20.71             | 40.17                       | 64.37            | 24.20          | QP      |
| 5  | 0.2061         | 9.70                   | 9.84                  | 7.69              | 27.23                       | 53.36            | 26.13          | Average |
| 6  | 0.2061         | 9.70                   | 9.84                  | 18.67             | 38.21                       | 63.36            | 25.15          | QP      |
| 7  | 0.2316         | 9.70                   | 9.84                  | 6.76              | 26.30                       | 52.39            | 26.09          | Average |
| 8  | 0.2316         | 9.70                   | 9.84                  | 16.67             | 36.21                       | 62.39            | 26.18          | QP      |
| 9  | 0.4148         | 9.77                   | 9.92                  | 6.30              | 25.99                       | 47.55            | 21.56          | Average |
| 10 | 0.4148         | 9.77                   | 9.92                  | 11.22             | 30.91                       | 57.55            | 26.64          | QP      |
| 11 | 16.4856        | 9.78                   | 10.14                 | 4.92              | 24.84                       | 50.00            | 25.16          | Average |
| 12 | 16.4856        | 9.78                   | 10.14                 | 11.29             | 31.21                       | 60.00            | 28.79          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. Margin=Limit - Emission Level.  
3. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.

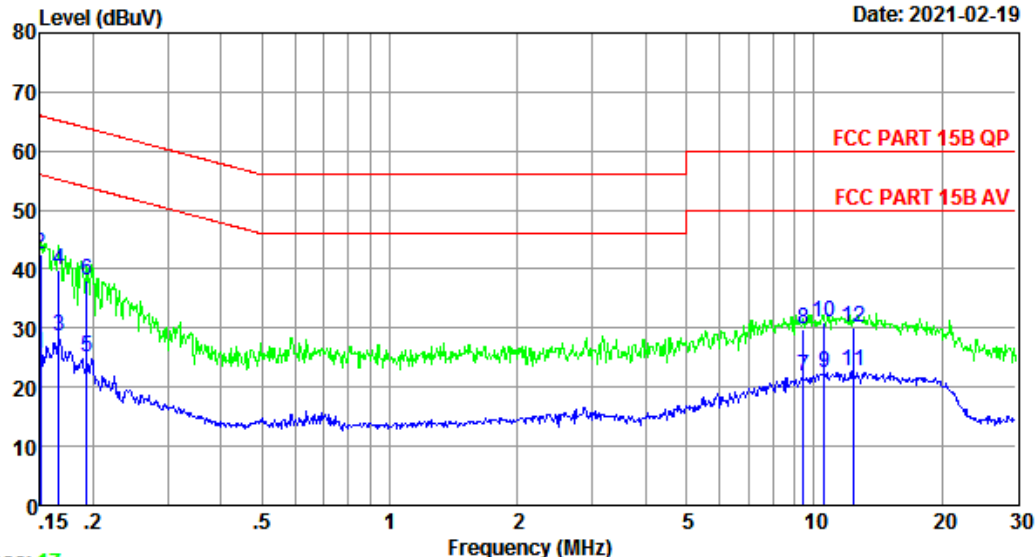
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Data: 18

File: \\Emc-ce-1\Test data\2021\RF\J\Joy Intelligent.EM6 (40)

Date: 2021-02-19



Trace: 17

Site no : 844 Shield Room Data no. : 18  
Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : LINE  
Limit : FCC PART 15B QP  
Engineer : MRS  
EUT : Robot Vacuum Cleaner  
Power : AC 120V/60Hz  
M/N : L2050  
Test Mode : Charging  
H18650CH-4S2P+RC500-KN-11630  
MS1

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1500         | 9.79                   | 9.69                  | 6.06              | 25.54                       | 56.00            | 30.46          | Average |
| 2  | 0.1500         | 9.79                   | 9.69                  | 23.03             | 42.51                       | 66.00            | 23.49          | QP      |
| 3  | 0.1659         | 9.79                   | 9.69                  | 9.30              | 28.78                       | 55.16            | 26.38          | Average |
| 4  | 0.1659         | 9.79                   | 9.69                  | 20.23             | 39.71                       | 65.16            | 25.45          | QP      |
| 5  | 0.1934         | 9.80                   | 9.77                  | 5.58              | 25.15                       | 53.89            | 28.74          | Average |
| 6  | 0.1934         | 9.80                   | 9.77                  | 18.54             | 38.11                       | 63.89            | 25.78          | QP      |
| 7  | 9.4514         | 9.86                   | 10.07                 | 1.78              | 21.71                       | 50.00            | 28.29          | Average |
| 8  | 9.4514         | 9.86                   | 10.07                 | 10.00             | 29.93                       | 60.00            | 30.07          | QP      |
| 9  | 10.5638        | 9.86                   | 10.08                 | 2.56              | 22.50                       | 50.00            | 27.50          | Average |
| 10 | 10.5638        | 9.86                   | 10.08                 | 11.09             | 31.03                       | 60.00            | 28.97          | QP      |
| 11 | 12.3837        | 9.86                   | 10.10                 | 2.77              | 22.73                       | 50.00            | 27.27          | Average |
| 12 | 12.3837        | 9.86                   | 10.10                 | 10.20             | 30.16                       | 60.00            | 29.84          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. Margin=Limit - Emission Level.  
3. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.

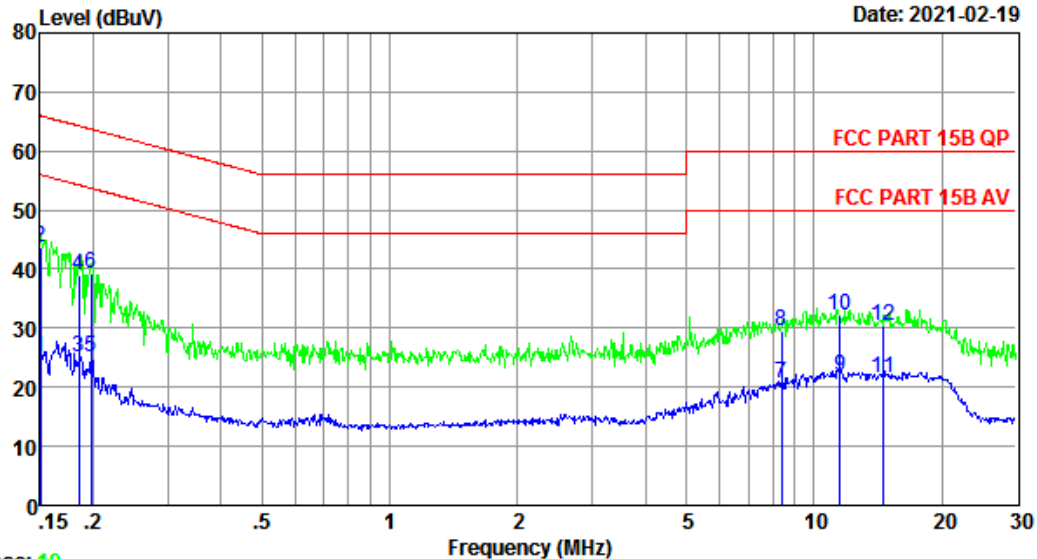
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Data: 20

File: \\Emc-ce-1\Test data\2021\RF\J\Joy Intelligent.EM6 (40)

Date: 2021-02-19



Trace: 19

Site no : 844 Shield Room Data no. : 20  
Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : NEUTRAL  
Limit : FCC PART 15B QP  
Engineer : MRS  
EUT : Robot Vacuum Cleaner  
Power : AC 120V/60Hz  
M/N : L2050  
Test Mode : Charging  
H18650CH-4S2P+RC500-KN-11630  
MS1

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1500         | 9.62                   | 9.69                  | 5.79              | 25.10                       | 56.00            | 30.90          | Average |
| 2  | 0.1500         | 9.62                   | 9.69                  | 24.39             | 43.70                       | 66.00            | 22.30          | QP      |
| 3  | 0.1854         | 9.69                   | 9.77                  | 5.71              | 25.17                       | 54.24            | 29.07          | Average |
| 4  | 0.1854         | 9.69                   | 9.77                  | 19.65             | 39.11                       | 64.24            | 25.13          | QP      |
| 5  | 0.1976         | 9.69                   | 9.77                  | 5.54              | 25.00                       | 53.71            | 28.71          | Average |
| 6  | 0.1976         | 9.69                   | 9.77                  | 19.71             | 39.17                       | 63.71            | 24.54          | QP      |
| 7  | 8.3671         | 9.86                   | 10.05                 | 0.67              | 20.58                       | 50.00            | 29.42          | Average |
| 8  | 8.3671         | 9.86                   | 10.05                 | 9.49              | 29.40                       | 60.00            | 30.60          | QP      |
| 9  | 11.4983        | 9.86                   | 10.08                 | 1.76              | 21.70                       | 50.00            | 28.30          | Average |
| 10 | 11.4983        | 9.86                   | 10.08                 | 12.33             | 32.27                       | 60.00            | 27.73          | QP      |
| 11 | 14.5942        | 9.86                   | 10.12                 | 1.63              | 21.61                       | 50.00            | 28.39          | Average |
| 12 | 14.5942        | 9.86                   | 10.12                 | 10.33             | 30.31                       | 60.00            | 29.69          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. Margin=Limit - Emission Level.  
3. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.

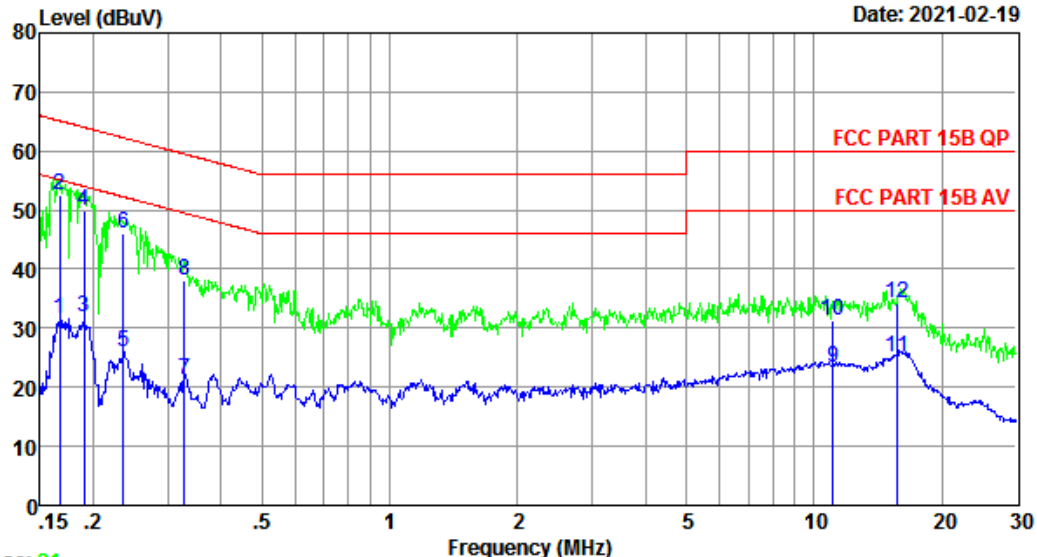
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Data: 22

File: \\Emc-ce-1\Test data\2021\RF\J\Joy Intelligent.EM6 (40)

Date: 2021-02-19



Trace: 21

Site no : 844 Shield Room Data no. : 22  
 Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : NEUTRAL  
 Limit : FCC PART 15B QP  
 Engineer : MRS  
 EUT : Robot Vacuum Cleaner  
 Power : DC 24V From Adapter Input AC 240V/60Hz  
 M/N : L2050  
 Test Mode : Charging  
 ICR-26J-4S2P-V3+RC500-KN-11630  
 DBS036A-2401200U

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1668         | 9.62                   | 9.69                  | 12.28             | 31.59                       | 55.12            | 23.53          | Average |
| 2  | 0.1668         | 9.62                   | 9.69                  | 33.20             | 52.51                       | 65.12            | 12.61          | QP      |
| 3  | 0.1904         | 9.69                   | 9.77                  | 12.47             | 31.93                       | 54.02            | 22.09          | Average |
| 4  | 0.1904         | 9.69                   | 9.77                  | 30.51             | 49.97                       | 64.02            | 14.05          | QP      |
| 5  | 0.2353         | 9.71                   | 9.92                  | 6.32              | 25.95                       | 52.26            | 26.31          | Average |
| 6  | 0.2353         | 9.71                   | 9.92                  | 26.28             | 45.91                       | 62.26            | 16.35          | QP      |
| 7  | 0.3286         | 9.74                   | 9.92                  | 1.58              | 21.24                       | 49.49            | 28.25          | Average |
| 8  | 0.3286         | 9.74                   | 9.92                  | 18.50             | 38.16                       | 59.49            | 21.33          | QP      |
| 9  | 11.0797        | 9.86                   | 10.08                 | 3.39              | 23.33                       | 50.00            | 26.67          | Average |
| 10 | 11.0797        | 9.86                   | 10.08                 | 11.33             | 31.27                       | 60.00            | 28.73          | QP      |
| 11 | 15.7179        | 9.82                   | 10.13                 | 5.21              | 25.16                       | 50.00            | 24.84          | Average |
| 12 | 15.7179        | 9.82                   | 10.13                 | 14.20             | 34.15                       | 60.00            | 25.85          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin=Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector,  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.

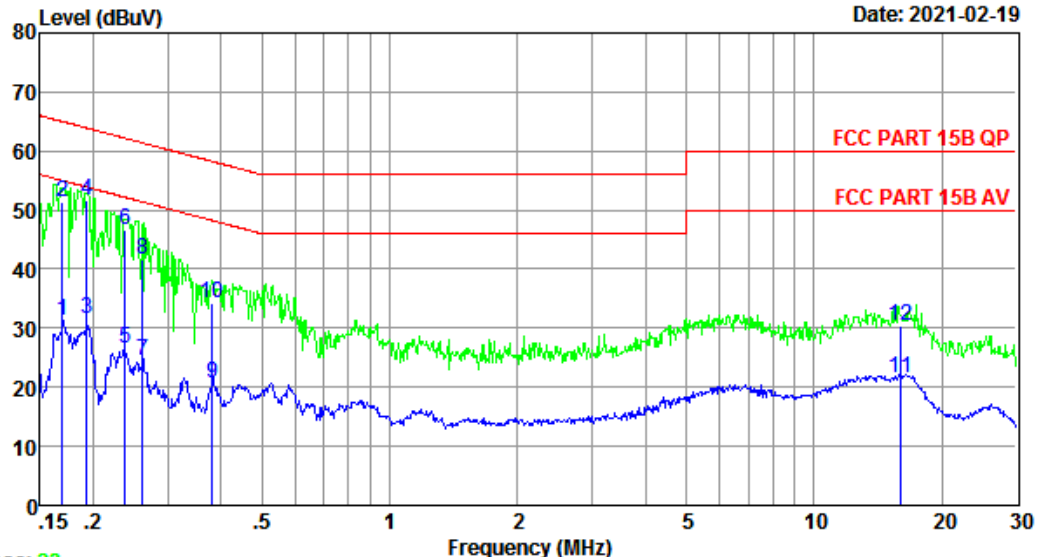
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Data: 24

File: \\Emc-ce-1\Test data\2021\RF\J\Joy Intelligent.EM6 (40)

Date: 2021-02-19



Trace: 23

Site no : 844 Shield Room Data no. : 24  
 Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : LINE  
 Limit : FCC PART 15B QP  
 Engineer : MRS  
 EUT : Robot Vacuum Cleaner  
 Power : DC 24V From Adapter Input AC 240V/60Hz  
 M/N : L2050  
 Test Mode : Charging  
 ICR-26J-4S2P-V3+RC500-KN-11630  
 DBS036A-2401200U

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1694         | 9.79                   | 9.69                  | 11.95             | 31.43                       | 54.99            | 23.56          | Average |
| 2  | 0.1694         | 9.79                   | 9.69                  | 31.99             | 51.47                       | 64.99            | 13.52          | QP      |
| 3  | 0.1934         | 9.80                   | 9.77                  | 12.10             | 31.67                       | 53.89            | 22.22          | Average |
| 4  | 0.1934         | 9.80                   | 9.77                  | 32.04             | 51.61                       | 63.89            | 12.28          | QP      |
| 5  | 0.2378         | 9.70                   | 9.92                  | 7.08              | 26.70                       | 52.17            | 25.47          | Average |
| 6  | 0.2378         | 9.70                   | 9.92                  | 27.15             | 46.77                       | 62.17            | 15.40          | QP      |
| 7  | 0.2616         | 9.70                   | 9.92                  | 4.92              | 24.54                       | 51.38            | 26.84          | Average |
| 8  | 0.2616         | 9.70                   | 9.92                  | 22.10             | 41.72                       | 61.38            | 19.66          | QP      |
| 9  | 0.3811         | 9.76                   | 9.92                  | 0.88              | 20.56                       | 48.25            | 27.69          | Average |
| 10 | 0.3811         | 9.76                   | 9.92                  | 14.51             | 34.19                       | 58.25            | 24.06          | QP      |
| 11 | 15.9698        | 9.87                   | 10.13                 | 1.44              | 21.44                       | 50.00            | 28.56          | Average |
| 12 | 15.9698        | 9.87                   | 10.13                 | 10.40             | 30.40                       | 60.00            | 29.60          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin=Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector,  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.

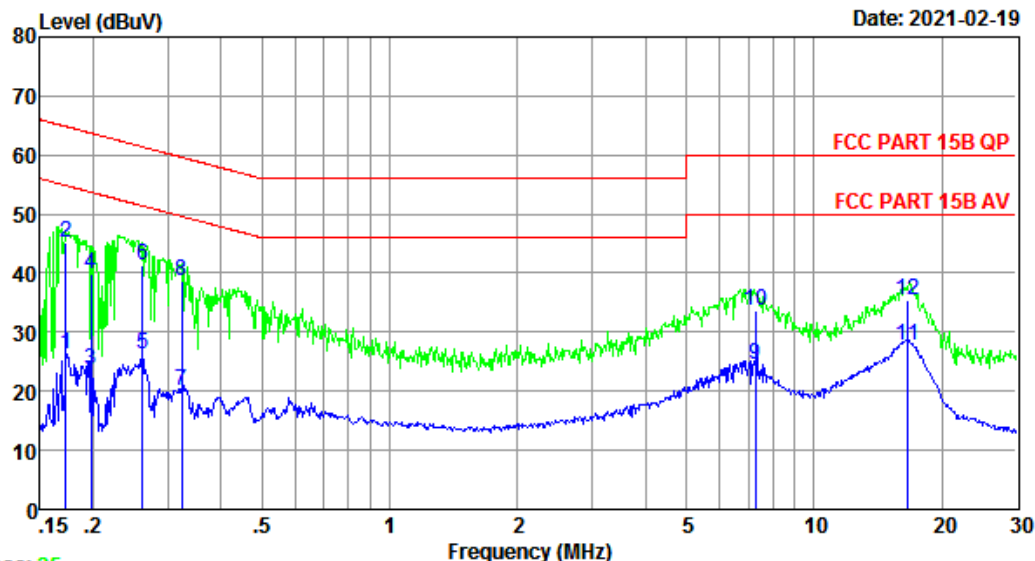
## EST Technology

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File: \\Emc-ce-1\Test data\2021\RF\Joy Intelligent.EM6 (40)

Date: 2021-02-19



Trace: 25

Site no : 844 Shield Room Data no. : 26  
 Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : LINE  
 Limit : FCC PART 15B QP  
 Engineer : MRS  
 EUT : Robot Vacuum Cleaner  
 Power : DC 24V From Adapter Input AC 120V/60Hz  
 M/N : L2050  
 Test Mode : Charging  
 ICR-26J-4S2P-V3+RC500-KN-11630  
 DBS036A-2401200U

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1722         | 9.79                   | 9.69                  | 6.69              | 26.17                       | 54.86            | 28.69          | Average |
| 2  | 0.1722         | 9.79                   | 9.69                  | 25.63             | 45.11                       | 64.86            | 19.75          | QP      |
| 3  | 0.1976         | 9.80                   | 9.77                  | 3.97              | 23.54                       | 53.71            | 30.17          | Average |
| 4  | 0.1976         | 9.80                   | 9.77                  | 20.43             | 40.00                       | 63.71            | 23.71          | QP      |
| 5  | 0.2616         | 9.70                   | 9.92                  | 6.68              | 26.30                       | 51.38            | 25.08          | Average |
| 6  | 0.2616         | 9.70                   | 9.92                  | 21.75             | 41.37                       | 61.38            | 20.01          | QP      |
| 7  | 0.3234         | 9.60                   | 9.92                  | 0.48              | 20.00                       | 49.62            | 29.62          | Average |
| 8  | 0.3234         | 9.60                   | 9.92                  | 19.18             | 38.70                       | 59.62            | 20.92          | QP      |
| 9  | 7.2903         | 9.86                   | 10.04                 | 4.69              | 24.59                       | 50.00            | 25.41          | Average |
| 10 | 7.2903         | 9.86                   | 10.04                 | 13.64             | 33.54                       | 60.00            | 26.46          | QP      |
| 11 | 16.6612        | 9.87                   | 10.13                 | 7.85              | 27.85                       | 50.00            | 22.15          | Average |
| 12 | 16.6612        | 9.87                   | 10.13                 | 15.46             | 35.46                       | 60.00            | 24.54          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin=Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector,  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.



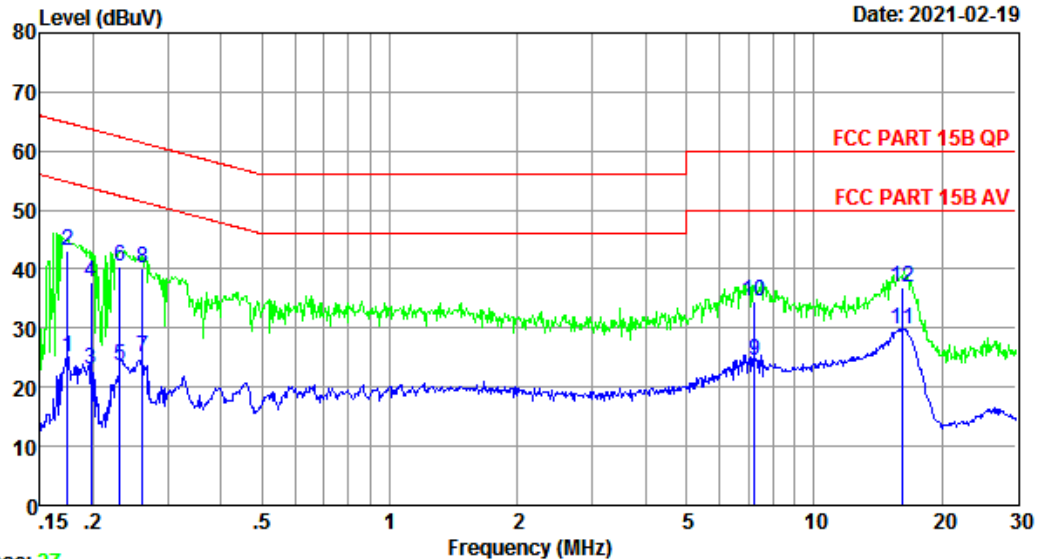
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Data: 28

File: \\Emc-ce-1\Test data\2021\RF\J\Joy Intelligent.EM6 (40)

Date: 2021-02-19



Trace: 27

Site no : 844 Shield Room Data no. : 28  
 Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : NEUTRAL  
 Limit : FCC PART 15B QP  
 Engineer : MRS  
 EUT : Robot Vacuum Cleaner  
 Power : DC 24V From Adapter Input AC 120V/60Hz  
 M/N : L2050  
 Test Mode : Charging  
 ICR-26J-4S2P-V3+RC500-KN-11630  
 DBS036A-2401200U

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1740         | 9.69                   | 9.77                  | 5.59              | 25.05                       | 54.77            | 29.72          | Average |
| 2  | 0.1740         | 9.69                   | 9.77                  | 23.55             | 43.01                       | 64.77            | 21.76          | QP      |
| 3  | 0.1976         | 9.69                   | 9.77                  | 3.42              | 22.88                       | 53.71            | 30.83          | Average |
| 4  | 0.1976         | 9.69                   | 9.77                  | 18.43             | 37.89                       | 63.71            | 25.82          | QP      |
| 5  | 0.2316         | 9.70                   | 9.84                  | 4.01              | 23.55                       | 52.39            | 28.84          | Average |
| 6  | 0.2316         | 9.70                   | 9.84                  | 21.01             | 40.55                       | 62.39            | 21.84          | QP      |
| 7  | 0.2616         | 9.71                   | 9.92                  | 5.43              | 25.06                       | 51.38            | 26.32          | Average |
| 8  | 0.2616         | 9.71                   | 9.92                  | 20.38             | 40.01                       | 61.38            | 21.37          | QP      |
| 9  | 7.2518         | 9.86                   | 10.04                 | 4.67              | 24.57                       | 50.00            | 25.43          | Average |
| 10 | 7.2518         | 9.86                   | 10.04                 | 14.60             | 34.50                       | 60.00            | 25.50          | QP      |
| 11 | 16.2256        | 9.80                   | 10.13                 | 9.94              | 29.87                       | 50.00            | 20.13          | Average |
| 12 | 16.2256        | 9.80                   | 10.13                 | 16.88             | 36.81                       | 60.00            | 23.19          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin=Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector,  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.



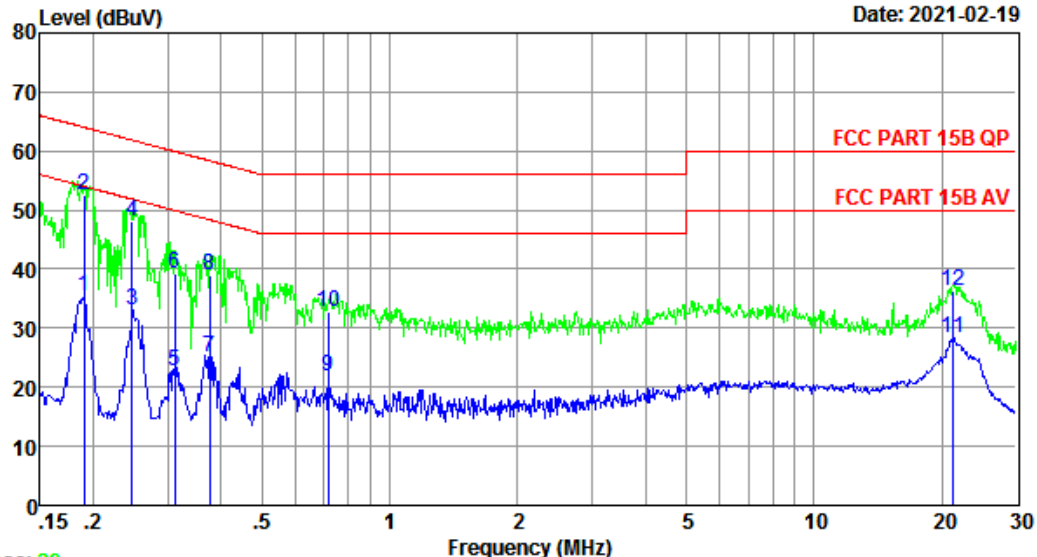
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File: \\Emc-ce-1\Test data\2021\RF\J\Joy Intelligent.EM6 (40)

Date: 2021-02-19



Trace: 29

Site no : 844 Shield Room Data no. : 30  
 Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : NEUTRAL  
 Limit : FCC PART 15B QP  
 Engineer : MRS  
 EUT : Robot Vacuum Cleaner  
 Power : DC 24V From Adapter Input AC 120V/60Hz  
 M/N : L2050  
 Test Mode : Charging  
 ICR-26J-4S2P-V3+RC500-KN-11630  
 KA3601A-2401200US

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1904         | 9.69                   | 9.77                  | 16.04             | 35.50                       | 54.02            | 18.52          | Average |
| 2  | 0.1904         | 9.69                   | 9.77                  | 33.11             | 52.57                       | 64.02            | 11.45          | QP      |
| 3  | 0.2468         | 9.71                   | 9.92                  | 13.53             | 33.16                       | 51.86            | 18.70          | Average |
| 4  | 0.2468         | 9.71                   | 9.92                  | 28.48             | 48.11                       | 61.86            | 13.75          | QP      |
| 5  | 0.3116         | 9.73                   | 9.92                  | 2.97              | 22.62                       | 49.93            | 27.31          | Average |
| 6  | 0.3116         | 9.73                   | 9.92                  | 19.50             | 39.15                       | 59.93            | 20.78          | QP      |
| 7  | 0.3771         | 9.75                   | 9.92                  | 5.48              | 25.15                       | 48.34            | 23.19          | Average |
| 8  | 0.3771         | 9.75                   | 9.92                  | 19.41             | 39.08                       | 58.34            | 19.26          | QP      |
| 9  | 0.7160         | 9.74                   | 9.93                  | 2.05              | 21.72                       | 46.00            | 24.28          | Average |
| 10 | 0.7160         | 9.74                   | 9.93                  | 13.05             | 32.72                       | 56.00            | 23.28          | QP      |
| 11 | 21.2596        | 9.69                   | 10.16                 | 8.37              | 28.22                       | 50.00            | 21.78          | Average |
| 12 | 21.2596        | 9.69                   | 10.16                 | 16.42             | 36.27                       | 60.00            | 23.73          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin=Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector,  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.

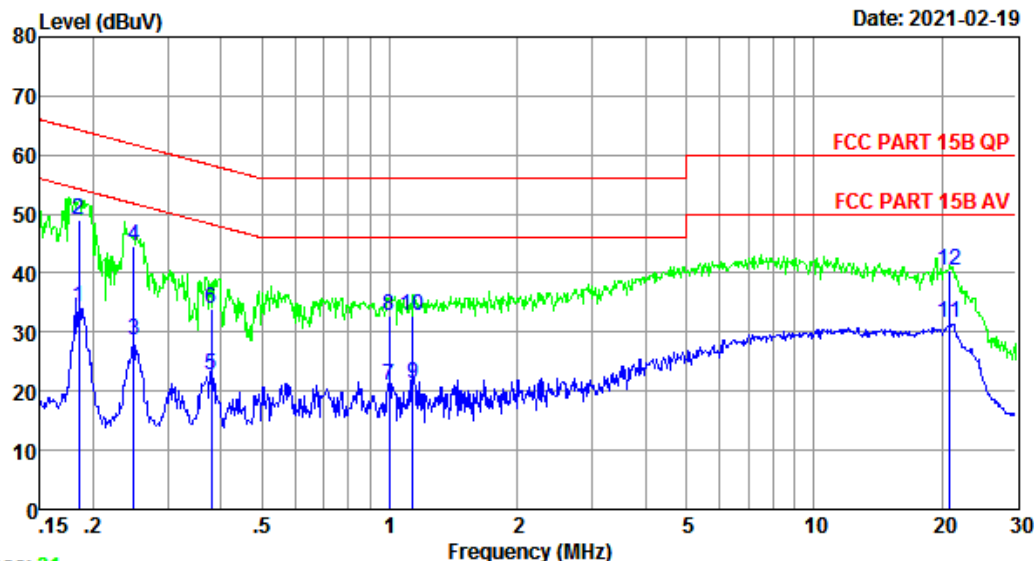
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Data: 32

File: \\Emc-ce-1\Test data\2021\RF\J\Joy Intelligent.EM6 (40)

Date: 2021-02-19



Trace: 31

Site no : 844 Shield Room Data no. : 32  
 Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : LINE  
 Limit : FCC PART 15B QP  
 Engineer : MRS  
 EUT : Robot Vacuum Cleaner  
 Power : DC 24V From Adapter Input AC 120V/60Hz  
 M/N : L2050  
 Test Mode : Charging  
 ICR-26J-4S2P-V3+RC500-KN-11630  
 KA3601A-2401200US

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1854         | 9.80                   | 9.77                  | 14.58             | 34.15                       | 54.24            | 20.09          | Average |
| 2  | 0.1854         | 9.80                   | 9.77                  | 29.54             | 49.11                       | 64.24            | 15.13          | QP      |
| 3  | 0.2495         | 9.70                   | 9.92                  | 9.14              | 28.76                       | 51.78            | 23.02          | Average |
| 4  | 0.2495         | 9.70                   | 9.92                  | 25.09             | 44.71                       | 61.78            | 17.07          | QP      |
| 5  | 0.3791         | 9.76                   | 9.92                  | 3.00              | 22.68                       | 48.30            | 25.62          | Average |
| 6  | 0.3791         | 9.76                   | 9.92                  | 14.21             | 33.89                       | 58.30            | 24.41          | QP      |
| 7  | 0.9997         | 9.79                   | 9.94                  | 1.31              | 21.04                       | 46.00            | 24.96          | Average |
| 8  | 0.9997         | 9.79                   | 9.94                  | 13.12             | 32.85                       | 56.00            | 23.15          | QP      |
| 9  | 1.1352         | 9.79                   | 9.94                  | 1.51              | 21.24                       | 46.00            | 24.76          | Average |
| 10 | 1.1352         | 9.79                   | 9.94                  | 13.12             | 32.85                       | 56.00            | 23.15          | QP      |
| 11 | 20.9243        | 9.87                   | 10.16                 | 11.53             | 31.56                       | 50.00            | 18.44          | Average |
| 12 | 20.9243        | 9.87                   | 10.16                 | 20.48             | 40.51                       | 60.00            | 19.49          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin=Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector,  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.

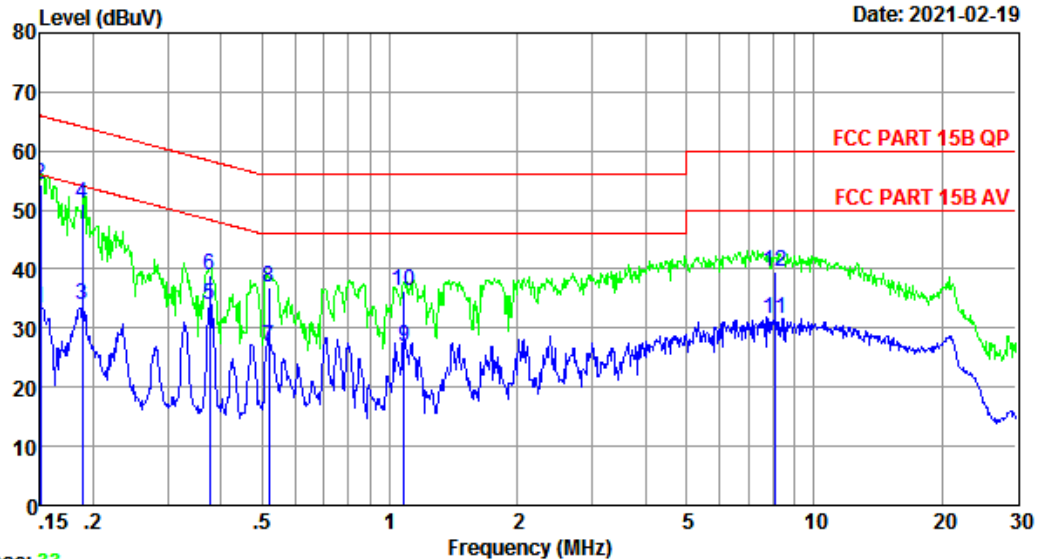
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Data: 34

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Date: 2021-02-19



Trace: 33

Site no : 844 Shield Room Data no. : 34  
Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : LINE  
Limit : FCC PART 15B QP  
Engineer : MRS  
EUT : Robot Vacuum Cleaner  
Power : DC 24V From Adapter Input AC 240V/60Hz  
M/N : L2050  
Test Mode : Charging  
ICR-26J-4S2P-V3+RC500-KN-11630  
KA3601A-2401200US

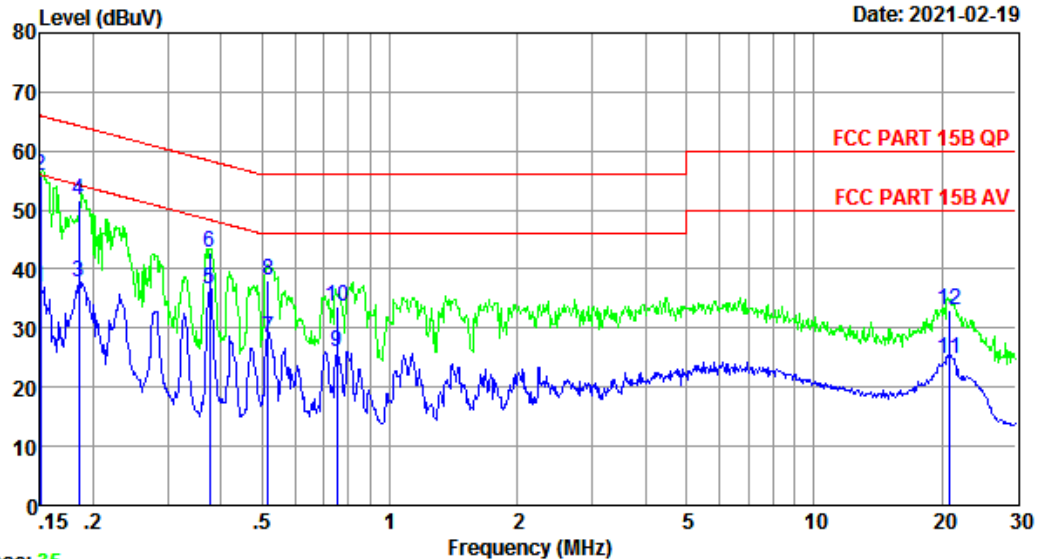
|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1500         | 9.79                   | 9.69                  | 13.90             | 33.38                       | 56.00            | 22.62          | Average |
| 2  | 0.1500         | 9.79                   | 9.69                  | 34.83             | 54.31                       | 66.00            | 11.69          | QP      |
| 3  | 0.1884         | 9.80                   | 9.77                  | 14.35             | 33.92                       | 54.11            | 20.19          | Average |
| 4  | 0.1884         | 9.80                   | 9.77                  | 31.40             | 50.97                       | 64.11            | 13.14          | QP      |
| 5  | 0.3771         | 9.76                   | 9.92                  | 14.29             | 33.97                       | 48.34            | 14.37          | Average |
| 6  | 0.3771         | 9.76                   | 9.92                  | 19.23             | 38.91                       | 58.34            | 19.43          | QP      |
| 7  | 0.5182         | 9.93                   | 9.92                  | 7.05              | 26.90                       | 46.00            | 19.10          | Average |
| 8  | 0.5182         | 9.93                   | 9.92                  | 17.06             | 36.91                       | 56.00            | 19.09          | QP      |
| 9  | 1.0824         | 9.79                   | 9.94                  | 7.13              | 26.86                       | 46.00            | 19.14          | Average |
| 10 | 1.0824         | 9.79                   | 9.94                  | 16.64             | 36.37                       | 56.00            | 19.63          | QP      |
| 11 | 8.1053         | 9.86                   | 10.04                 | 11.69             | 31.59                       | 50.00            | 18.41          | Average |
| 12 | 8.1053         | 9.86                   | 10.04                 | 19.75             | 39.65                       | 60.00            | 20.35          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. Margin=Limit - Emission Level.  
3. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.

Data: 36

File: \\Emc-ce-1\Test data\2021\RF\J\Joy Intelligent.EM6 (40)

Date: 2021-02-19



Trace: 35

Site no : 844 Shield Room Data no. : 36  
 Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : NEUTRAL  
 Limit : FCC PART 15B QP  
 Engineer : MRS  
 EUT : Robot Vacuum Cleaner  
 Power : DC 24V From Adapter Input AC 240V/60Hz  
 M/N : L2050  
 Test Mode : Charging  
 ICR-26J-4S2P-V3+RC500-KN-11630  
 KA3601A-2401200US

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1500         | 9.62                   | 9.69                  | 17.47             | 36.78                       | 56.00            | 19.22          | Average |
| 2  | 0.1500         | 9.62                   | 9.69                  | 36.40             | 55.71                       | 66.00            | 10.29          | QP      |
| 3  | 0.1854         | 9.69                   | 9.77                  | 18.21             | 37.67                       | 54.24            | 16.57          | Average |
| 4  | 0.1854         | 9.69                   | 9.77                  | 32.15             | 51.61                       | 64.24            | 12.63          | QP      |
| 5  | 0.3771         | 9.75                   | 9.92                  | 17.06             | 36.73                       | 48.34            | 11.61          | Average |
| 6  | 0.3771         | 9.75                   | 9.92                  | 23.10             | 42.77                       | 58.34            | 15.57          | QP      |
| 7  | 0.5155         | 9.78                   | 9.92                  | 8.57              | 28.27                       | 46.00            | 17.73          | Average |
| 8  | 0.5155         | 9.78                   | 9.92                  | 18.36             | 38.06                       | 56.00            | 17.94          | QP      |
| 9  | 0.7509         | 9.73                   | 9.93                  | 6.18              | 25.84                       | 46.00            | 20.16          | Average |
| 10 | 0.7509         | 9.73                   | 9.93                  | 14.14             | 33.80                       | 56.00            | 22.20          | QP      |
| 11 | 20.8137        | 9.66                   | 10.16                 | 4.93              | 24.75                       | 50.00            | 25.25          | Average |
| 12 | 20.8137        | 9.66                   | 10.16                 | 13.30             | 33.12                       | 60.00            | 26.88          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin=Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector,  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.

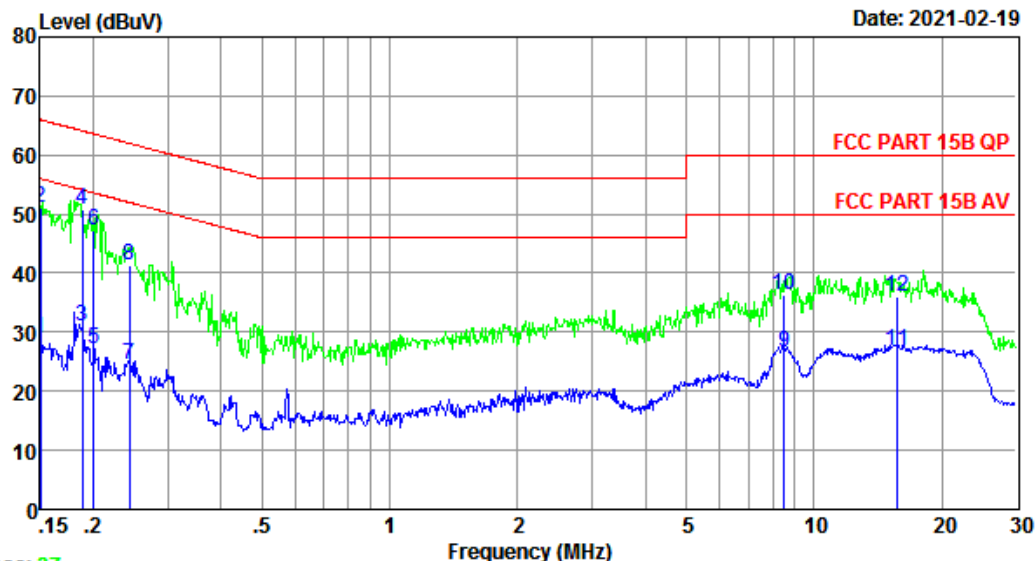
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Data: 38

File: \\Emc-ce-1\Test data\2021\RF\J\Joy Intelligent.EM6 (40)

Date: 2021-02-19



Trace: 37

Site no : 844 Shield Room Data no. : 38  
 Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : NEUTRAL  
 Limit : FCC PART 15B QP  
 Engineer : MRS  
 EUT : Robot Vacuum Cleaner  
 Power : AC 120V/60Hz  
 M/N : L2050  
 Test Mode : Charging  
 ICR-26J-4S2P-V3+RC500-KN-11630  
 MS1

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1500         | 9.62                   | 9.69                  | 9.62              | 28.93                       | 56.00            | 27.07          | Average |
| 2  | 0.1500         | 9.62                   | 9.69                  | 31.66             | 50.97                       | 66.00            | 15.03          | QP      |
| 3  | 0.1884         | 9.69                   | 9.77                  | 11.53             | 30.99                       | 54.11            | 23.12          | Average |
| 4  | 0.1884         | 9.69                   | 9.77                  | 31.45             | 50.91                       | 64.11            | 13.20          | QP      |
| 5  | 0.2007         | 9.69                   | 9.77                  | 7.79              | 27.25                       | 53.58            | 26.33          | Average |
| 6  | 0.2007         | 9.69                   | 9.77                  | 27.75             | 47.21                       | 63.58            | 16.37          | QP      |
| 7  | 0.2429         | 9.71                   | 9.92                  | 4.76              | 24.39                       | 52.00            | 27.61          | Average |
| 8  | 0.2429         | 9.71                   | 9.92                  | 21.70             | 41.33                       | 62.00            | 20.67          | QP      |
| 9  | 8.5011         | 9.86                   | 10.06                 | 6.64              | 26.56                       | 50.00            | 23.44          | Average |
| 10 | 8.5011         | 9.86                   | 10.06                 | 16.46             | 36.38                       | 60.00            | 23.62          | QP      |
| 11 | 15.6349        | 9.83                   | 10.13                 | 6.91              | 26.87                       | 50.00            | 23.13          | Average |
| 12 | 15.6349        | 9.83                   | 10.13                 | 16.16             | 36.12                       | 60.00            | 23.88          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin=Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector,  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.

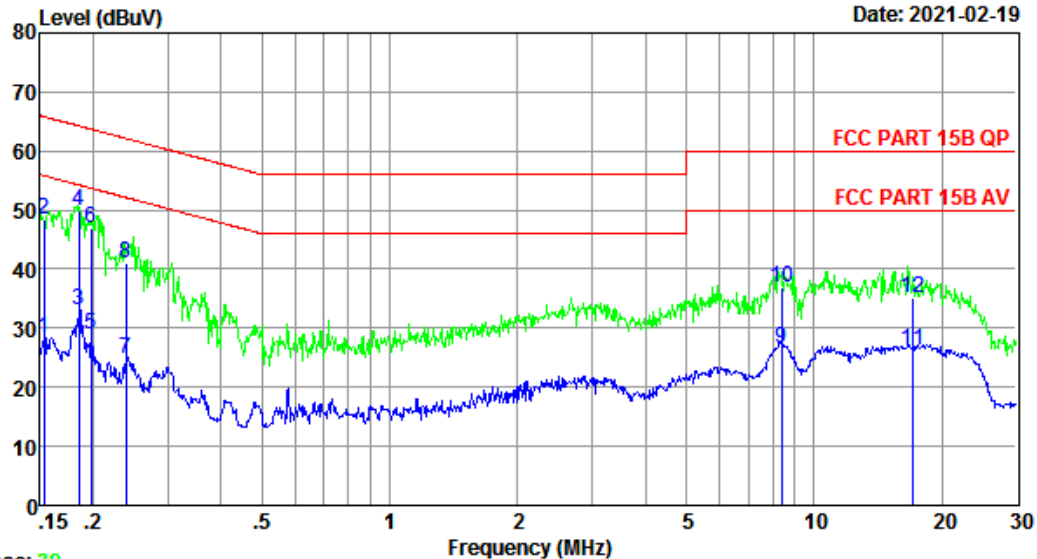
## EST Technology

Chilingxiang, Qishantou, Santun,  
Houjie, Dongguan, Guangdong, China  
Tel: +86-769-83081888  
Fax: +86-769-83081878

Data: 40

File: \\Emc-ce-1\Test data\2021\RF\J\Joy Intelligent.EM6 (40)

Date: 2021-02-19



Trace: 39

Site no : 844 Shield Room Data no. : 40  
 Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : LINE  
 Limit : FCC PART 15B QP  
 Engineer : MRS  
 EUT : Robot Vacuum Cleaner  
 Power : AC 120V/60Hz  
 M/N : L2050  
 Test Mode : Charging  
 ICR-26J-4S2P-V3+RC500-KN-11630  
 MS1

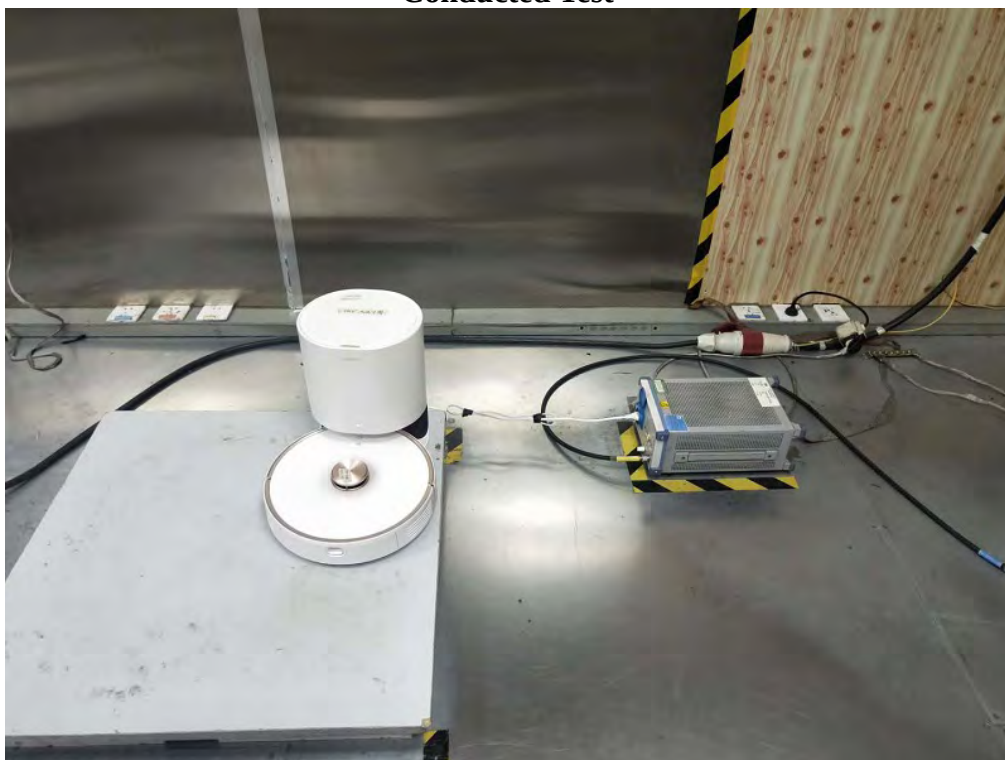
|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.1532         | 9.79                   | 9.69                  | 8.88              | 28.36                       | 55.82            | 27.46          | Average |
| 2  | 0.1532         | 9.79                   | 9.69                  | 28.83             | 48.31                       | 65.82            | 17.51          | QP      |
| 3  | 0.1854         | 9.80                   | 9.77                  | 13.48             | 33.05                       | 54.24            | 21.19          | Average |
| 4  | 0.1854         | 9.80                   | 9.77                  | 30.44             | 50.01                       | 64.24            | 14.23          | QP      |
| 5  | 0.1976         | 9.80                   | 9.77                  | 9.45              | 29.02                       | 53.71            | 24.69          | Average |
| 6  | 0.1976         | 9.80                   | 9.77                  | 27.50             | 47.07                       | 63.71            | 16.64          | QP      |
| 7  | 0.2391         | 9.70                   | 9.92                  | 5.13              | 24.75                       | 52.13            | 27.38          | Average |
| 8  | 0.2391         | 9.70                   | 9.92                  | 21.36             | 40.98                       | 62.13            | 21.15          | QP      |
| 9  | 8.3671         | 9.86                   | 10.05                 | 6.63              | 26.54                       | 50.00            | 23.46          | Average |
| 10 | 8.3671         | 9.86                   | 10.05                 | 17.14             | 37.05                       | 60.00            | 22.95          | QP      |
| 11 | 17.1085        | 9.87                   | 10.13                 | 6.28              | 26.28                       | 50.00            | 23.72          | Average |
| 12 | 17.1085        | 9.87                   | 10.13                 | 15.28             | 35.28                       | 60.00            | 24.72          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin=Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector,  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.

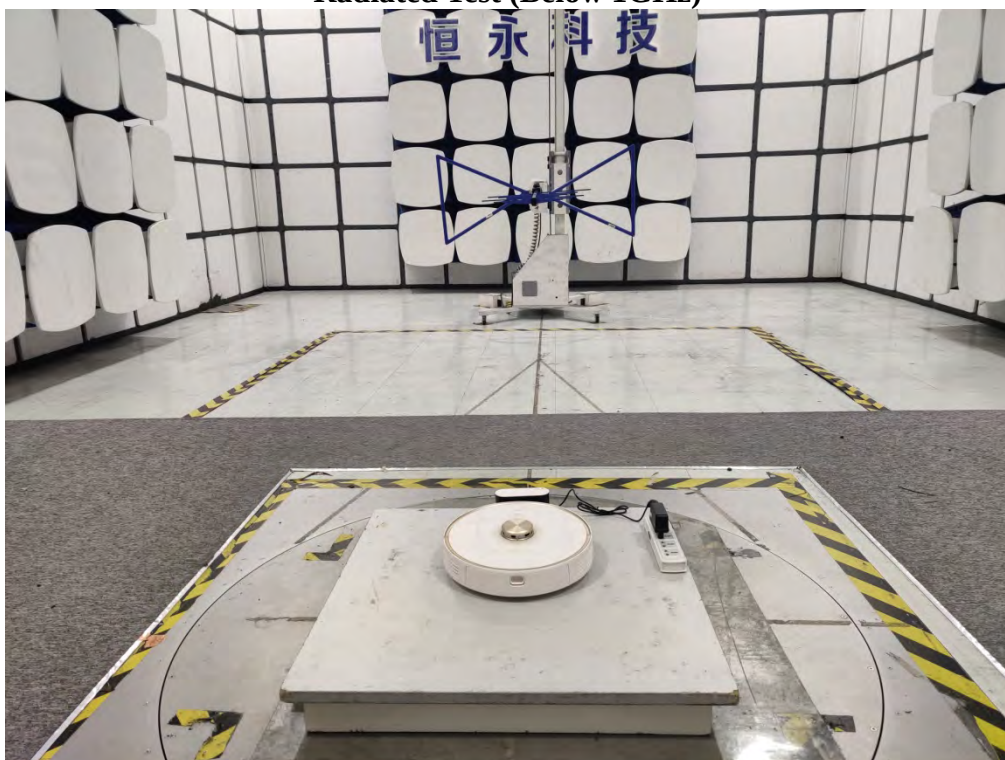


## 5. TEST SETUP PHOTO

Conducted Test



**Radiated Test (Below 1GHz)**





## 6. EUT PHOTO

External Photos  
M/N: L2050

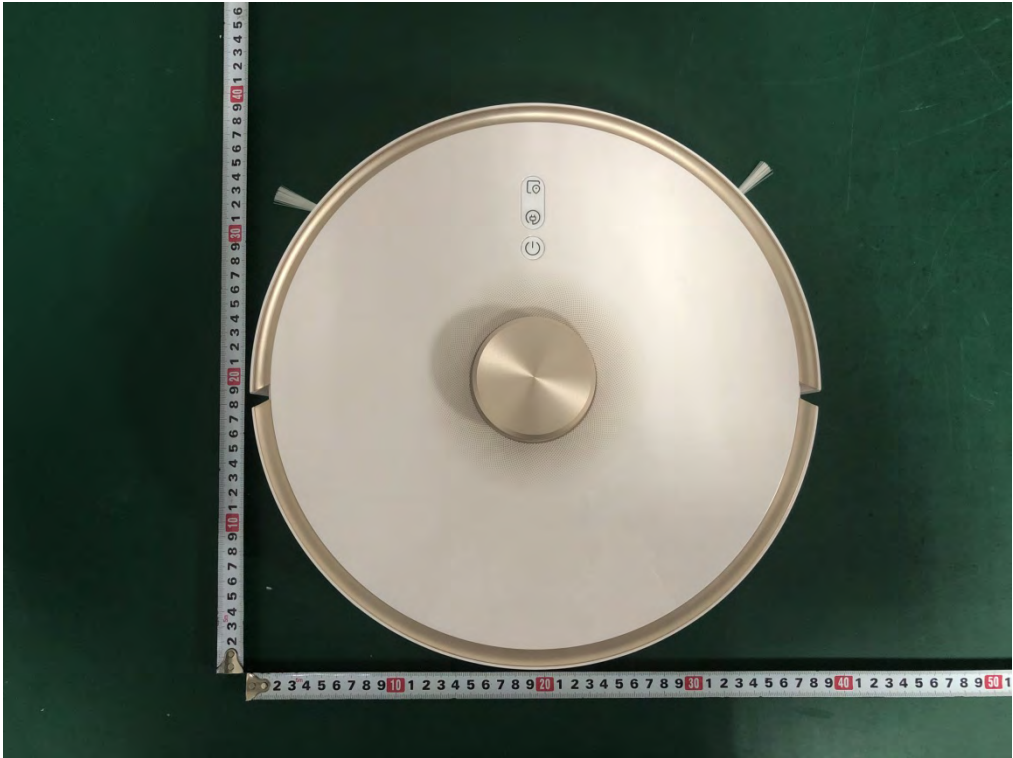


## External Photos

M/N: L2050

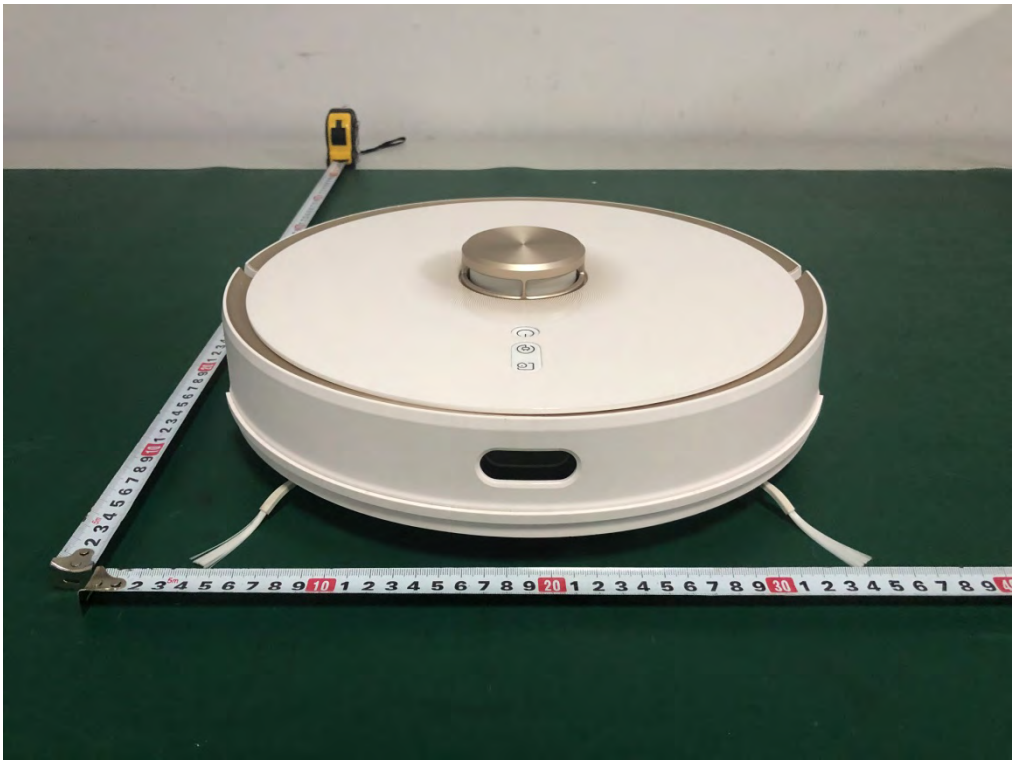
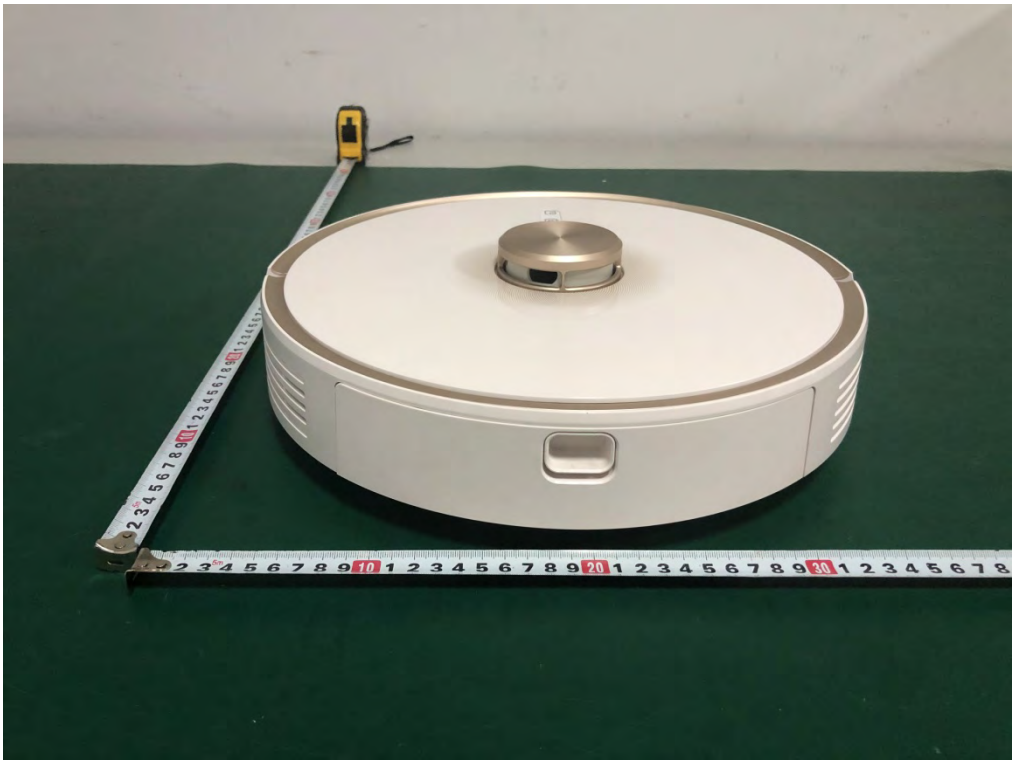


External Photos  
M/N: L2050

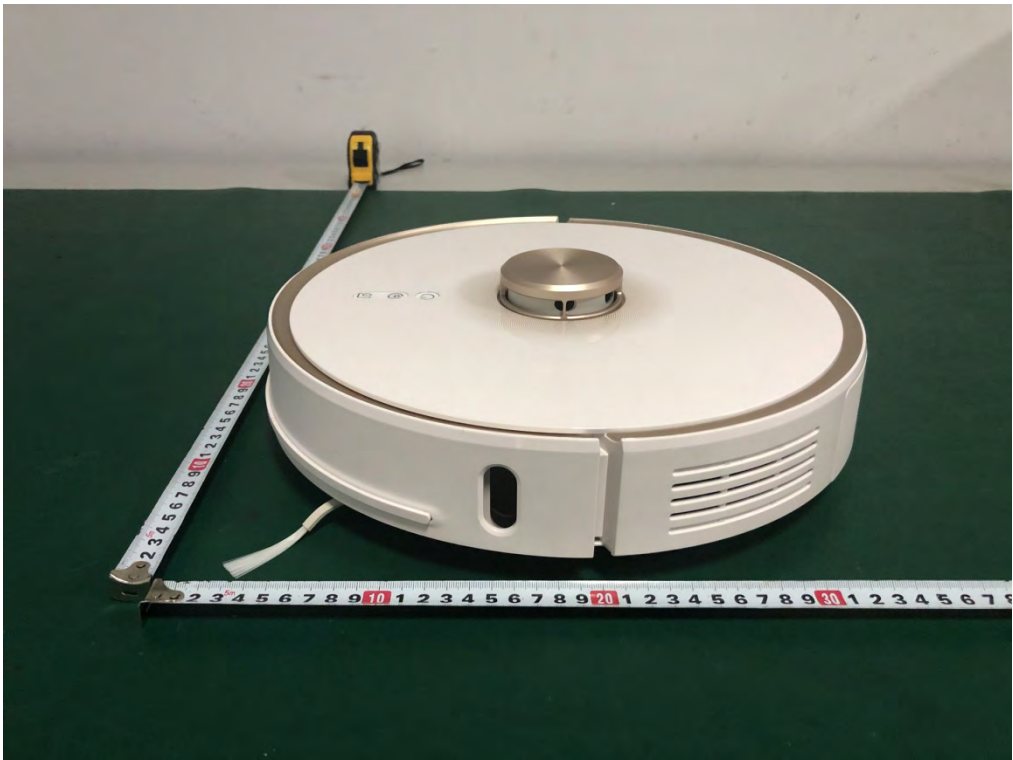




External Photos  
M/N: L2050



External Photos  
M/N: L2050



Power Supply

External Photos

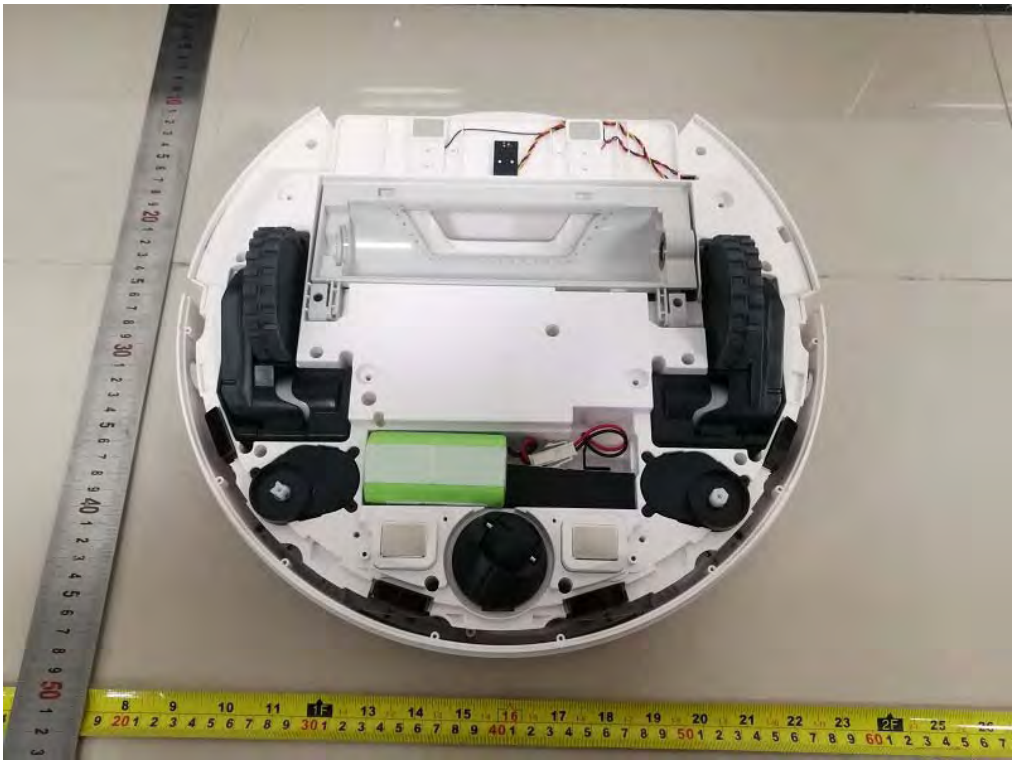




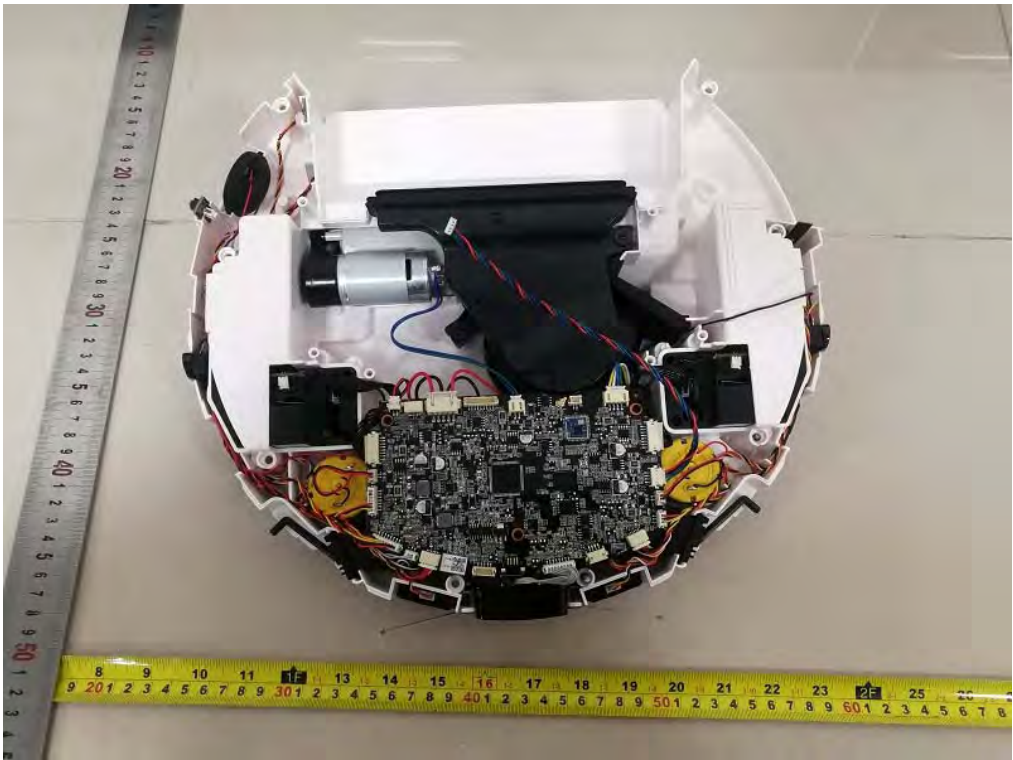
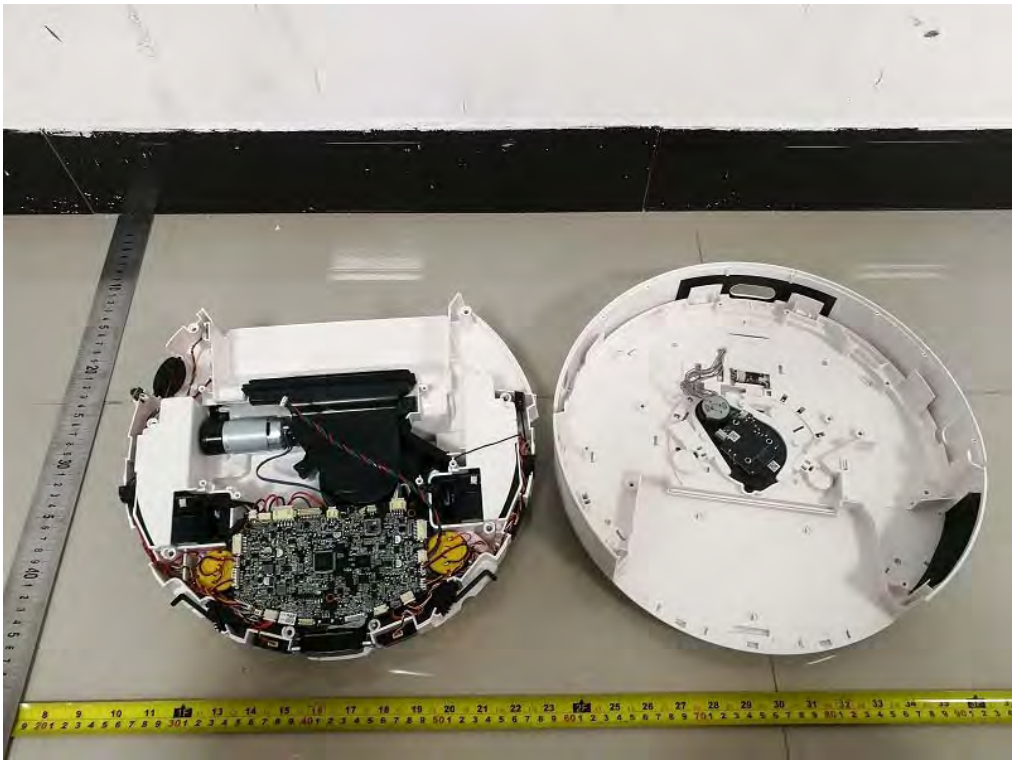




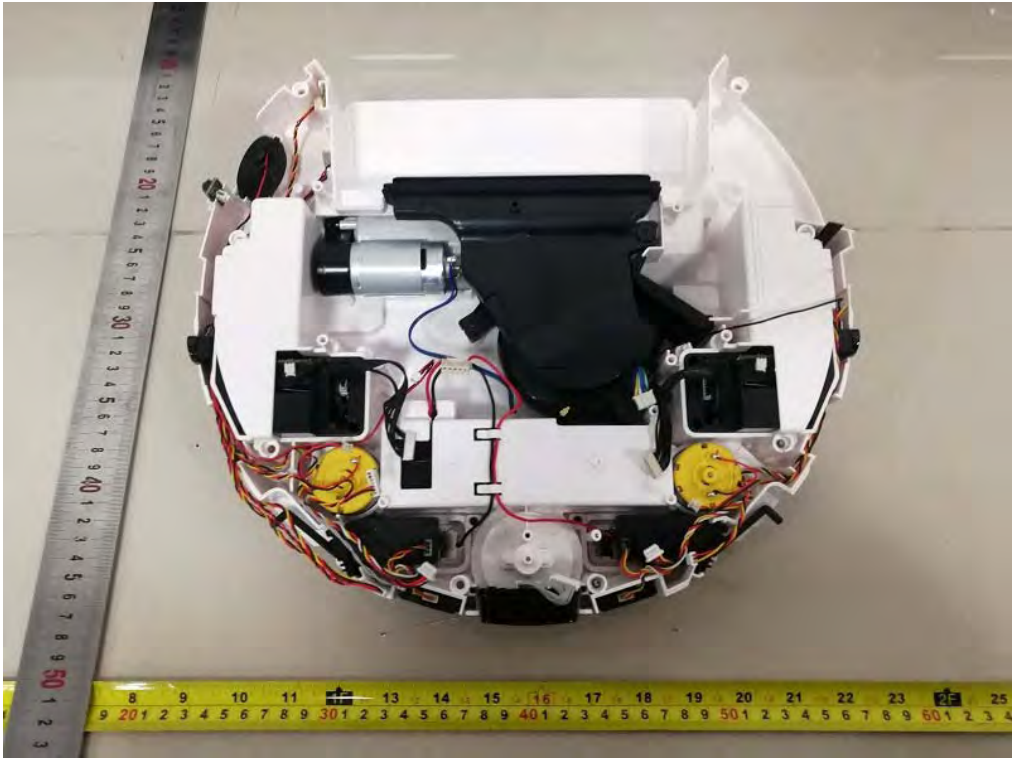
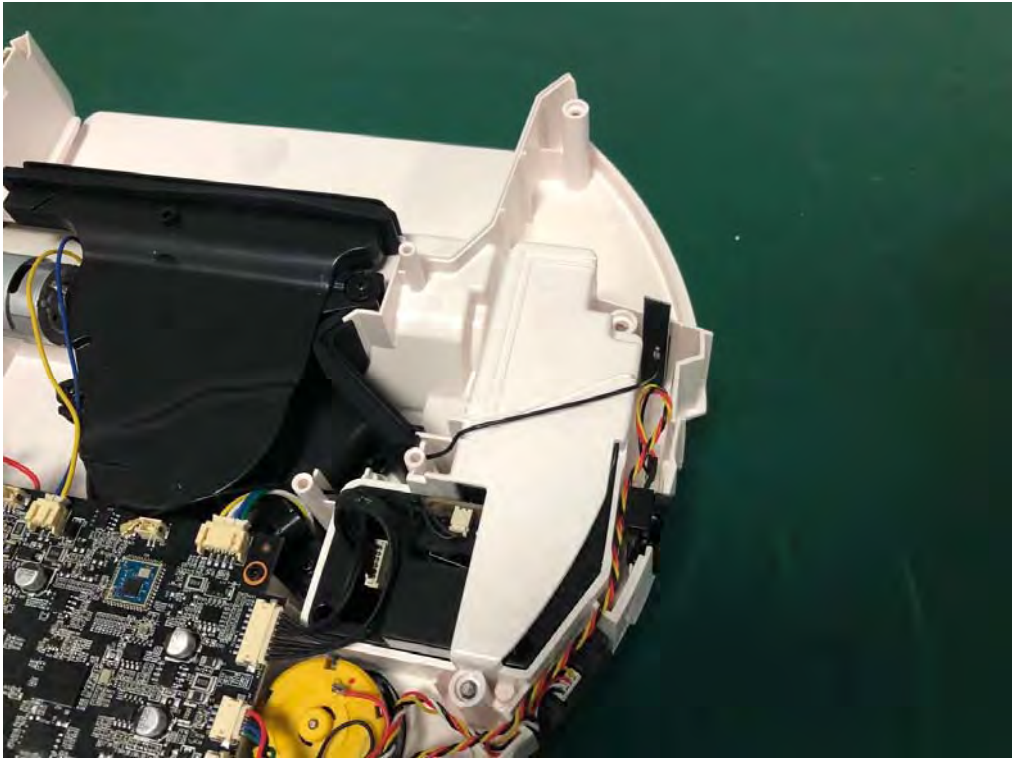
Internal Photos  
M/N: L2050



Internal Photos  
M/N: L2050

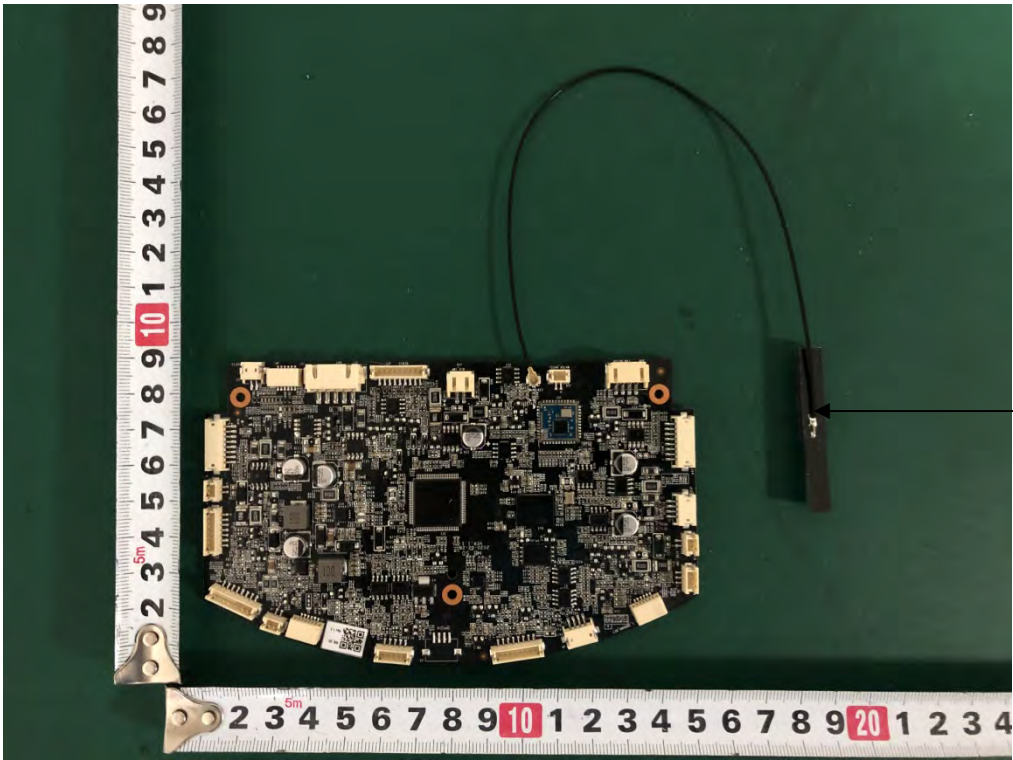


Internal Photos  
M/N: L2050



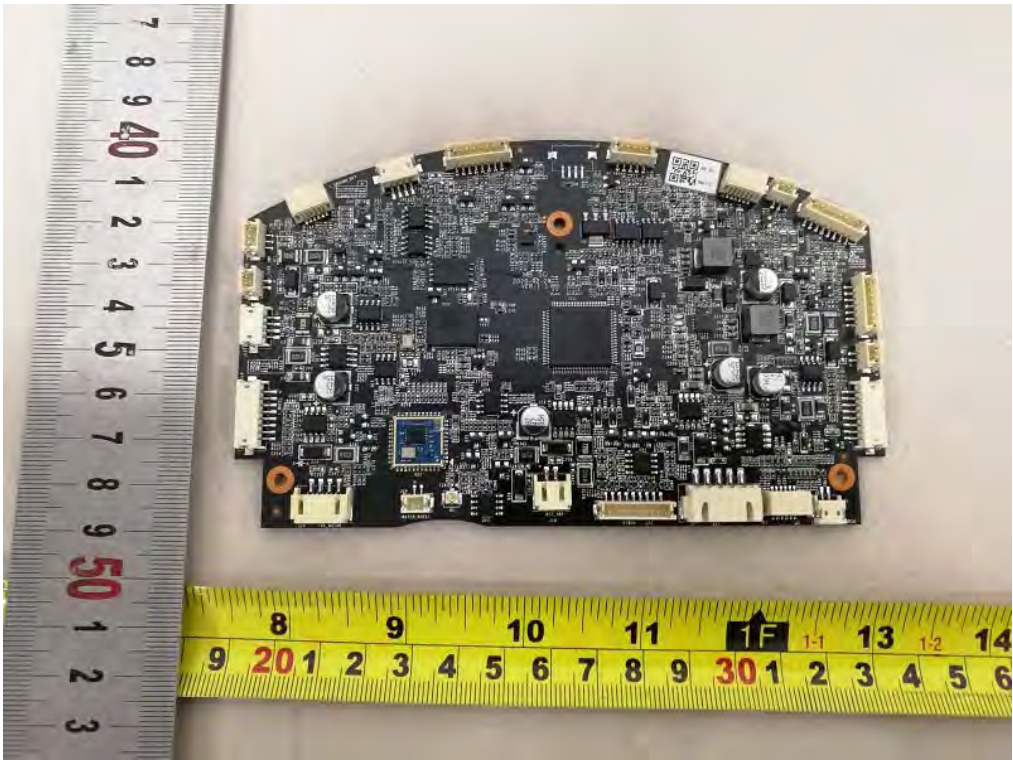
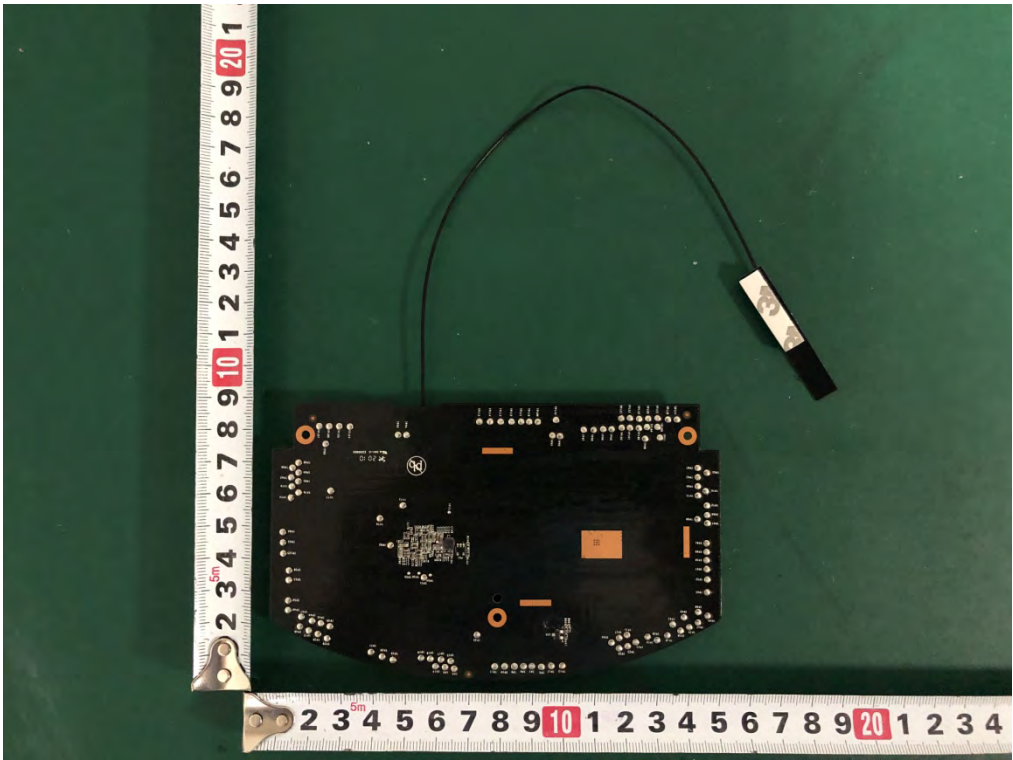


Internal Photos  
M/N: L2050



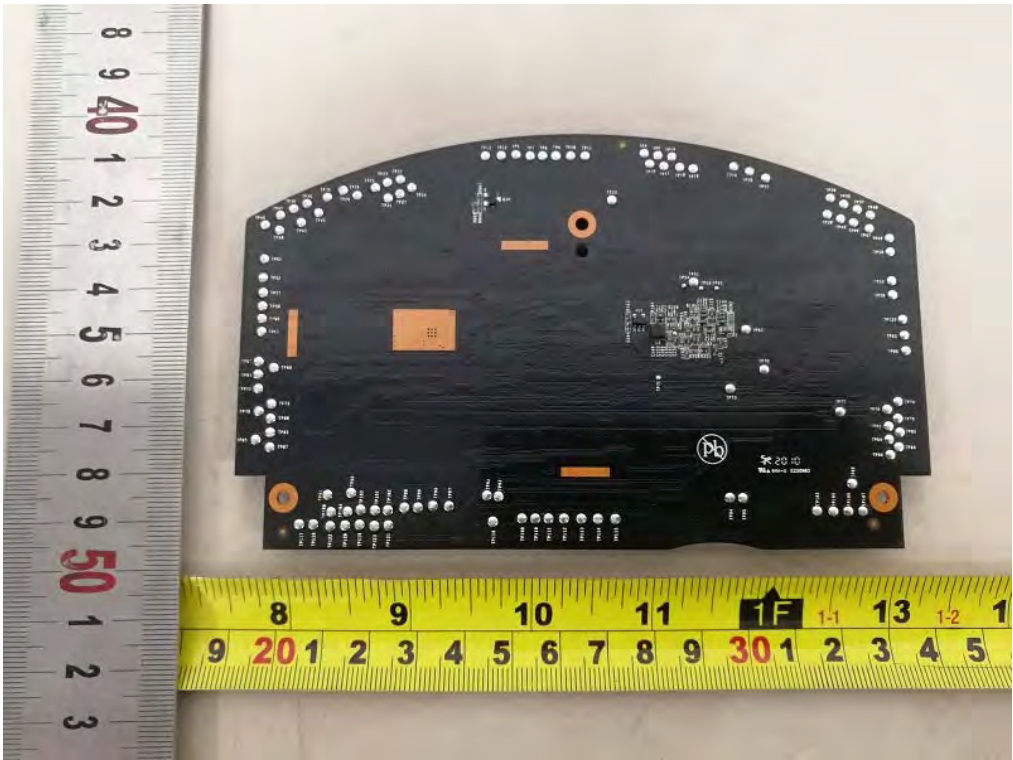
Wi-Fi  
Antenna

Internal Photos  
M/N: L2050

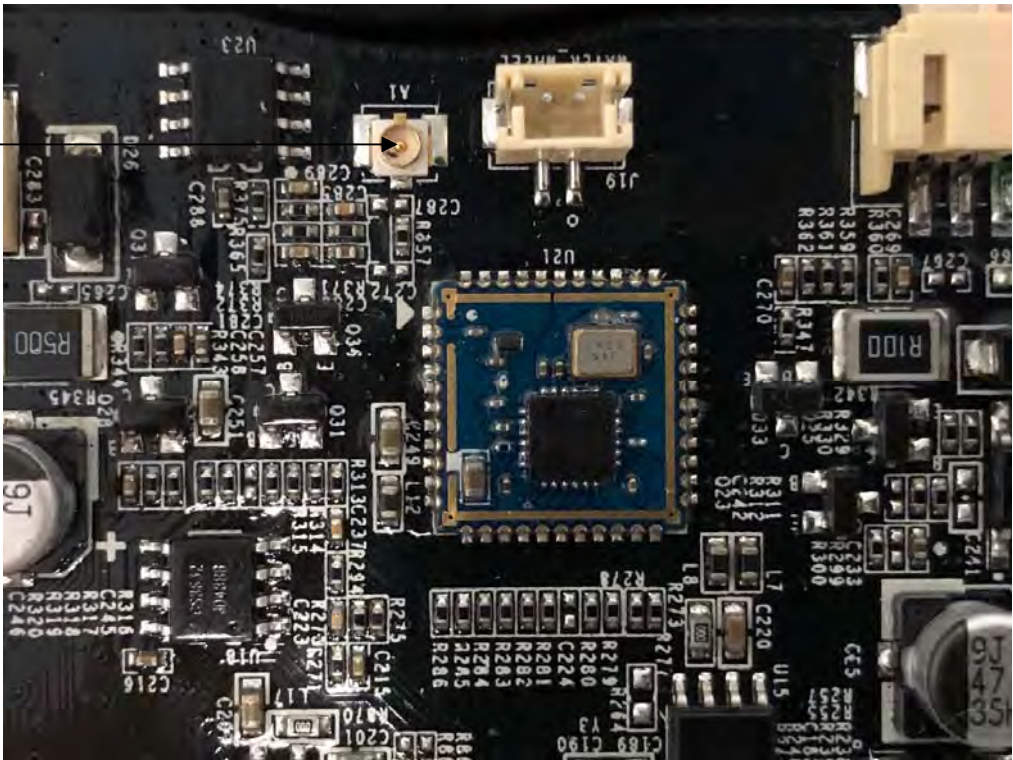




Internal Photos  
M/N: L2050

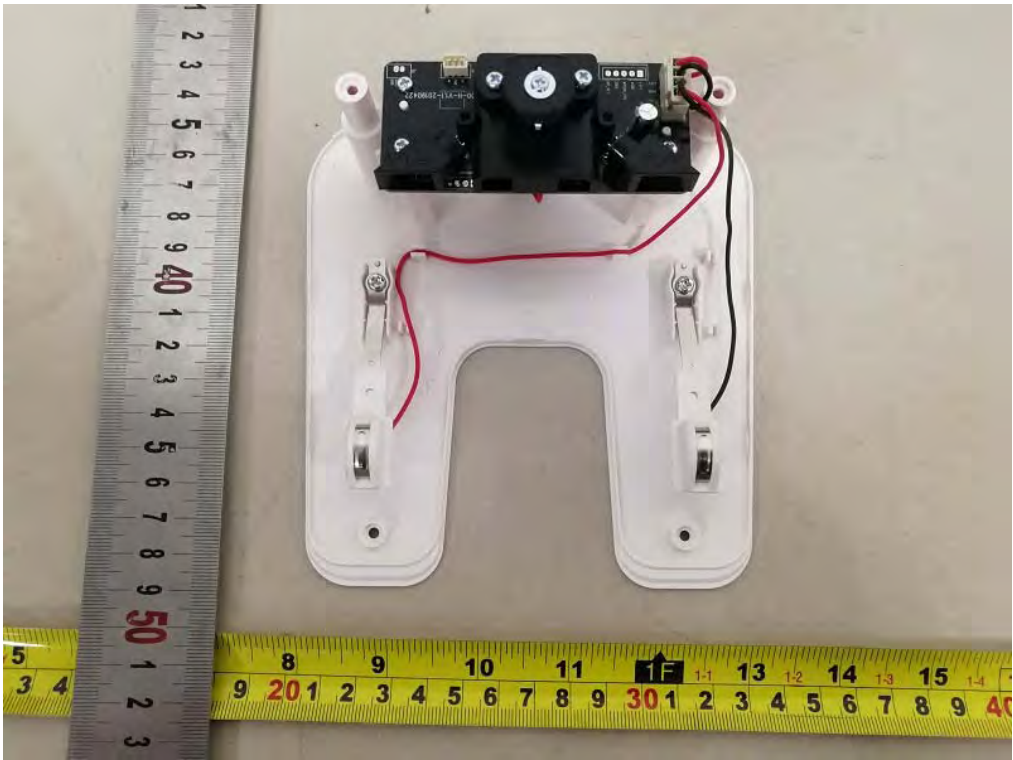


Wi-Fi  
Antenna  
Connector





Internal Photos  
M/N: L2050



Battery

Internal Photos



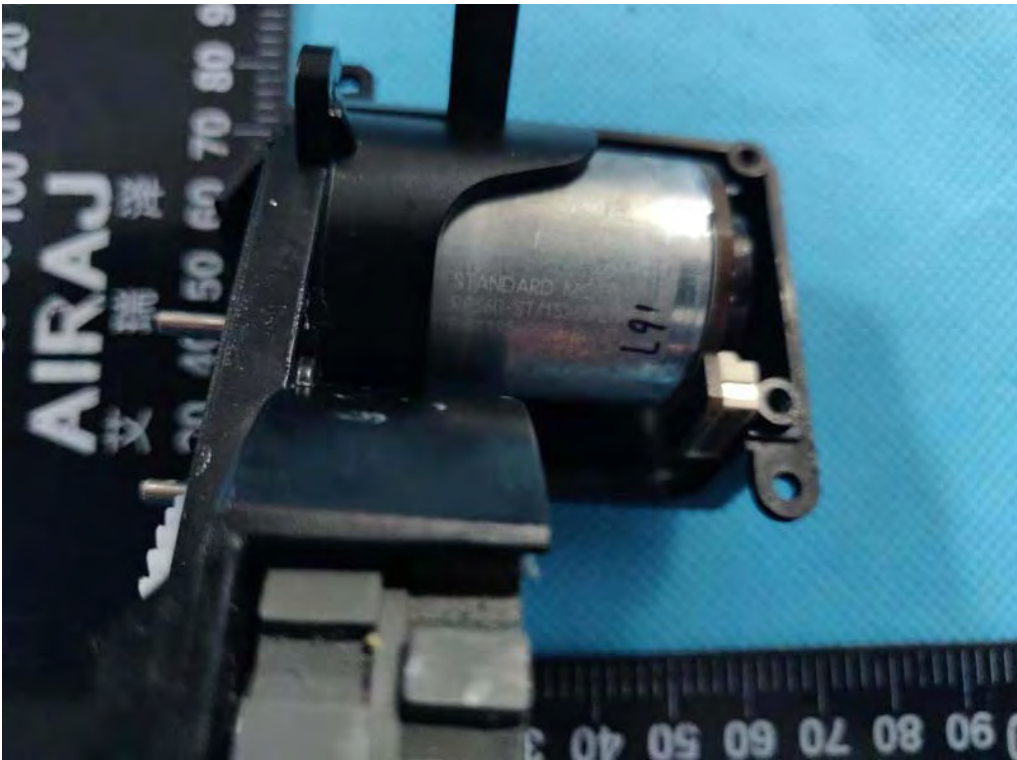
Internal Photos



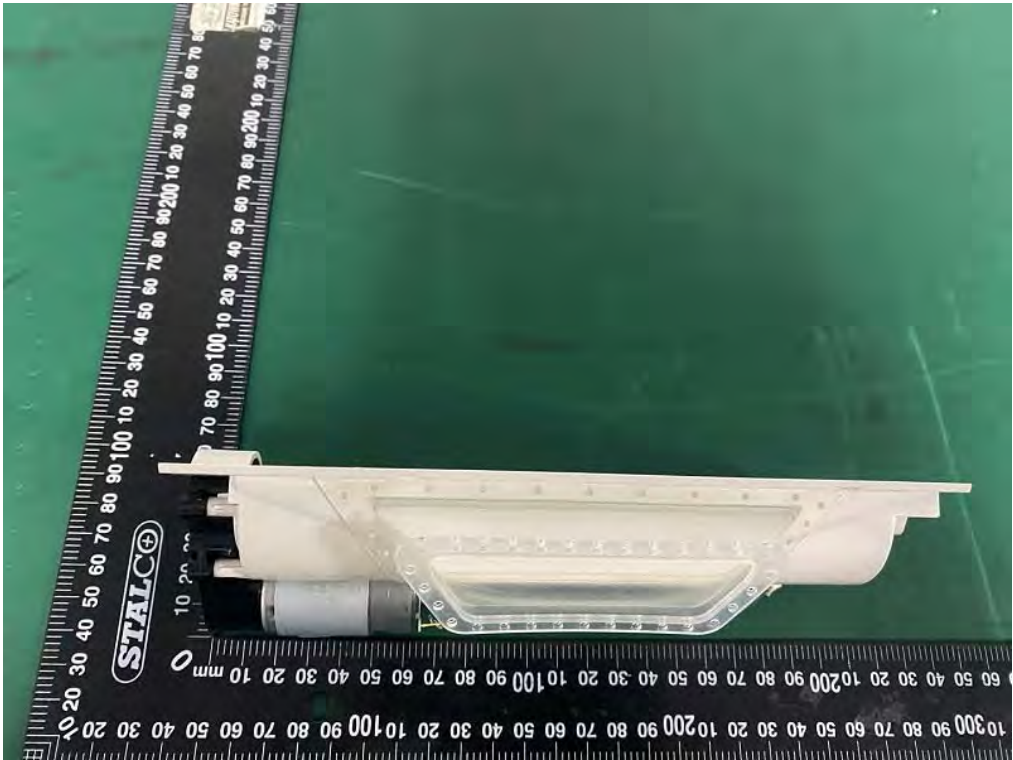


Motor

Internal Photos

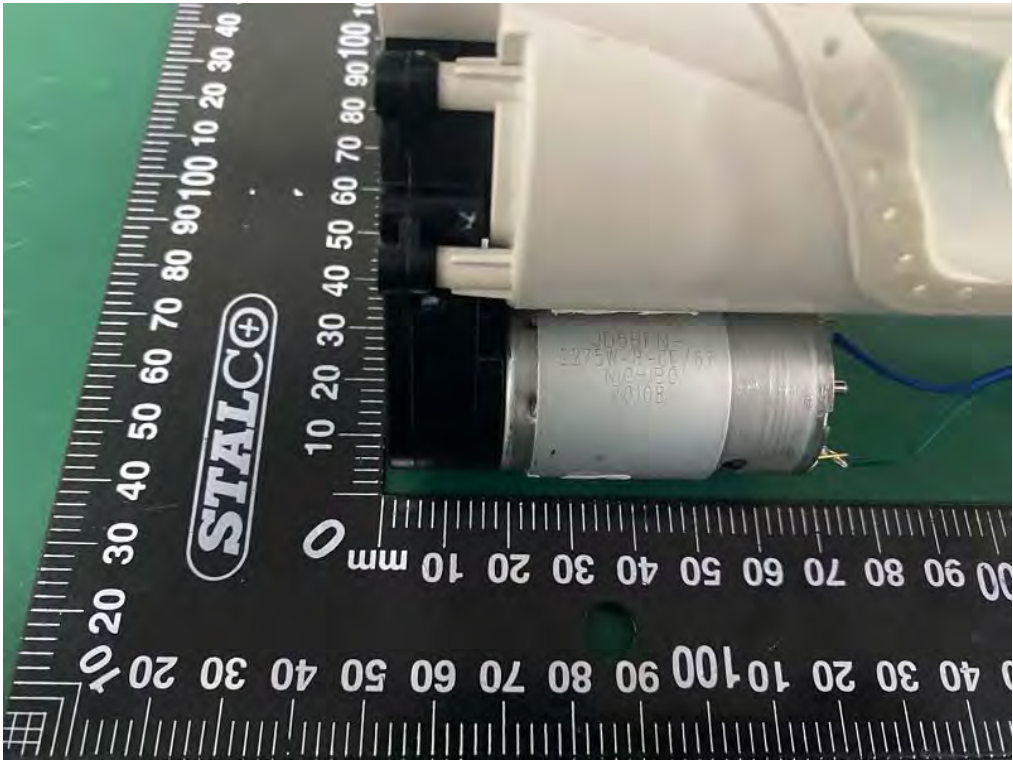


Internal Photos



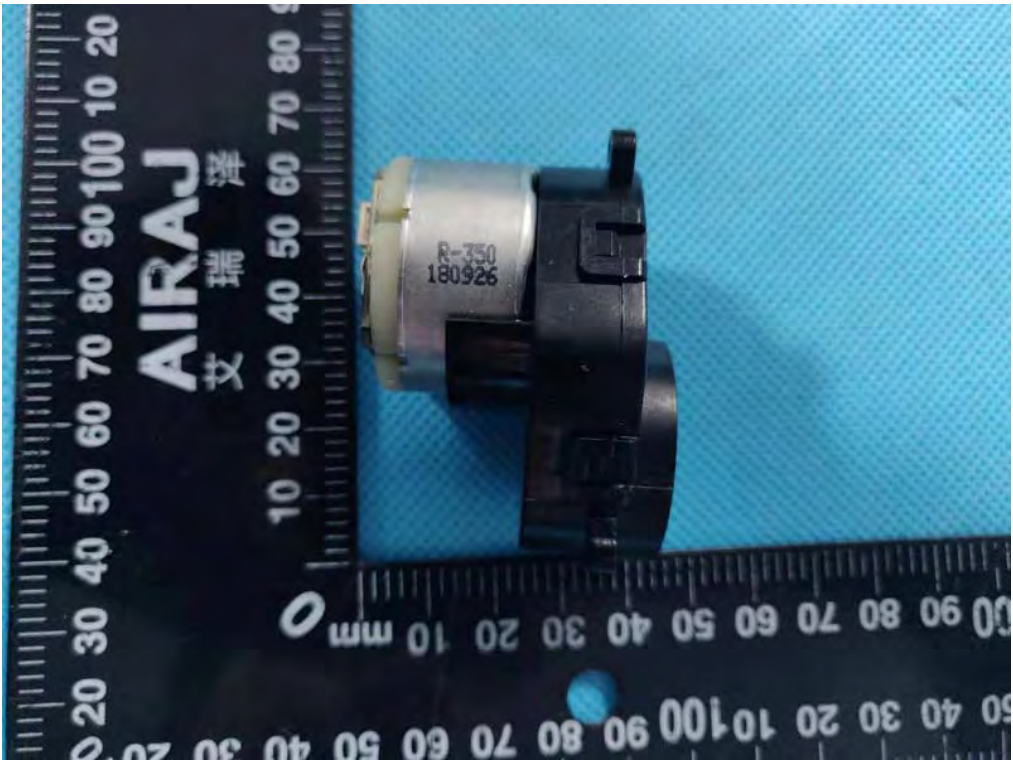
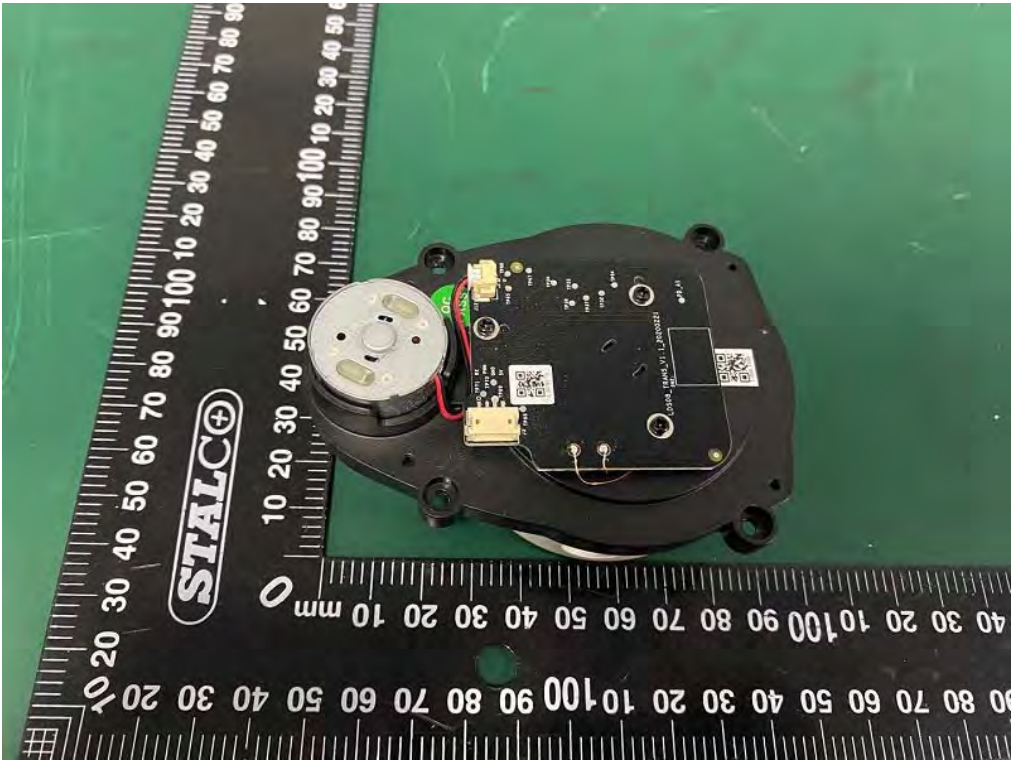


Internal Photos

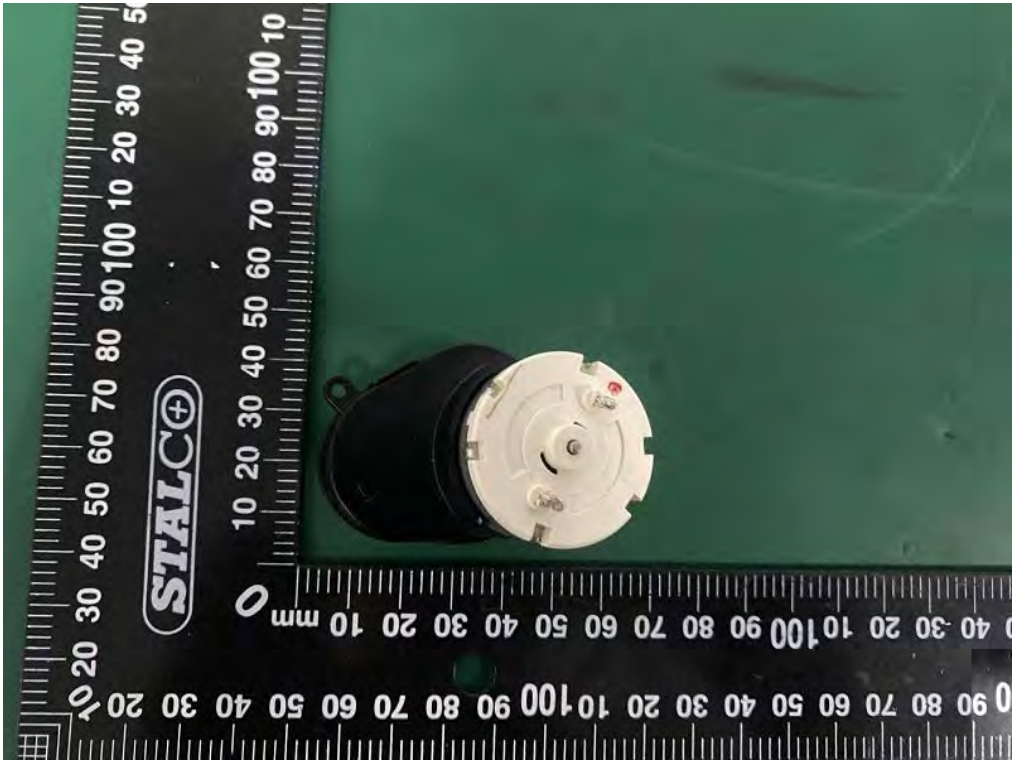




Internal Photos

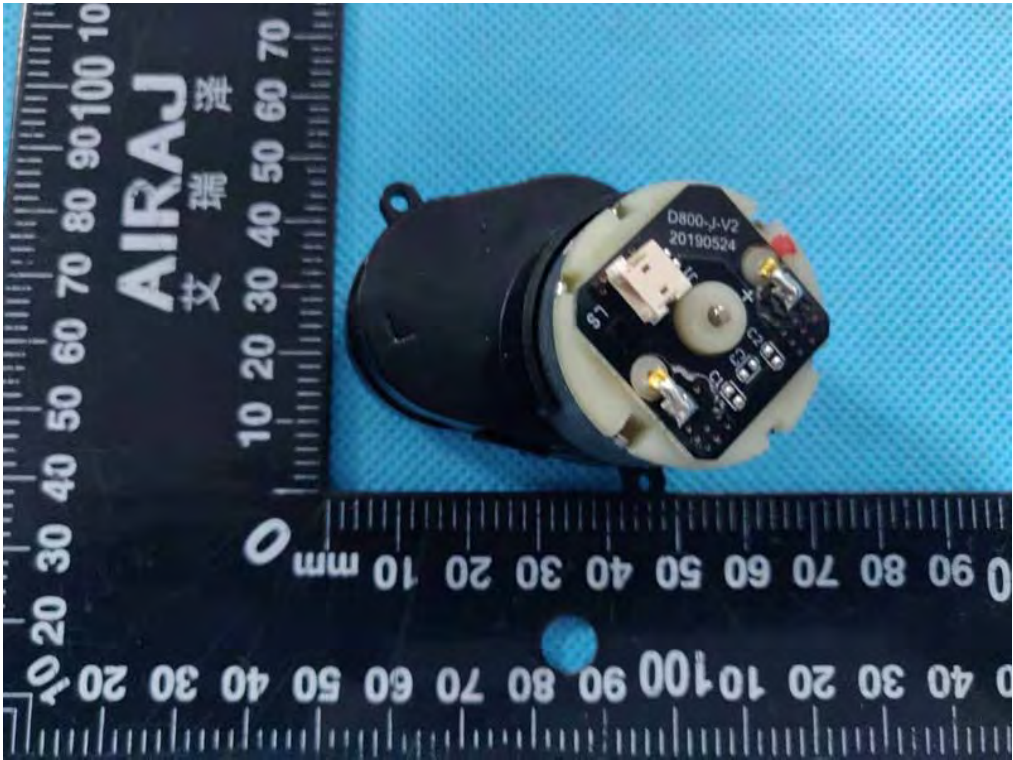


Internal Photos





Internal Photos

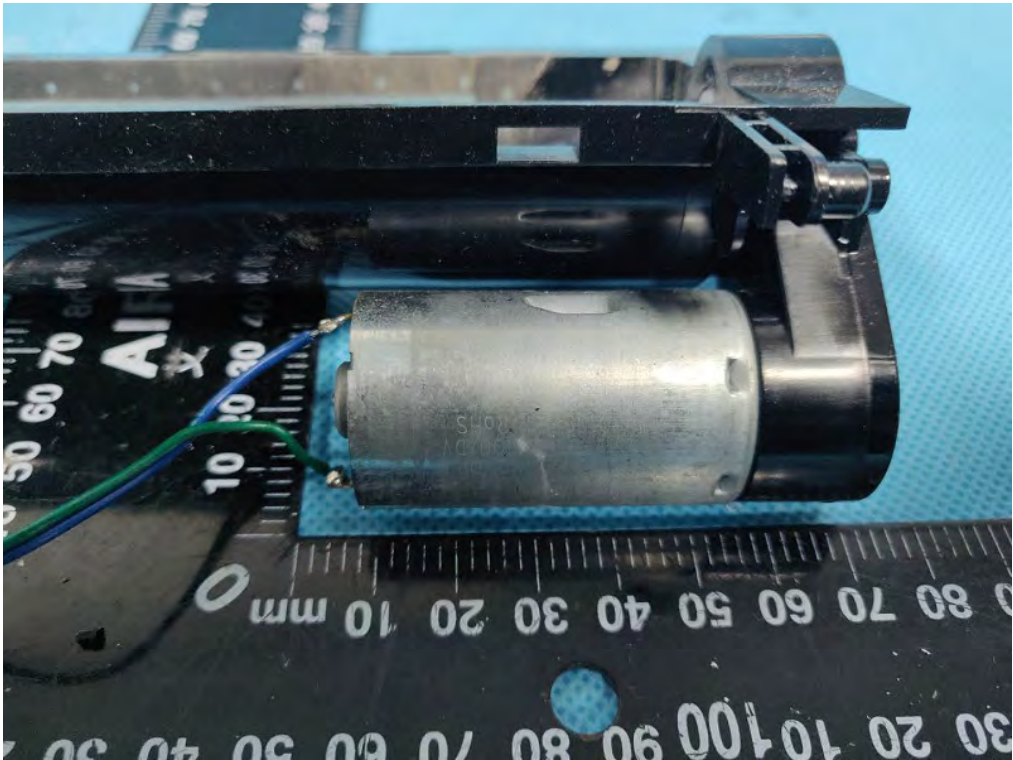


Internal Photos





Internal Photos



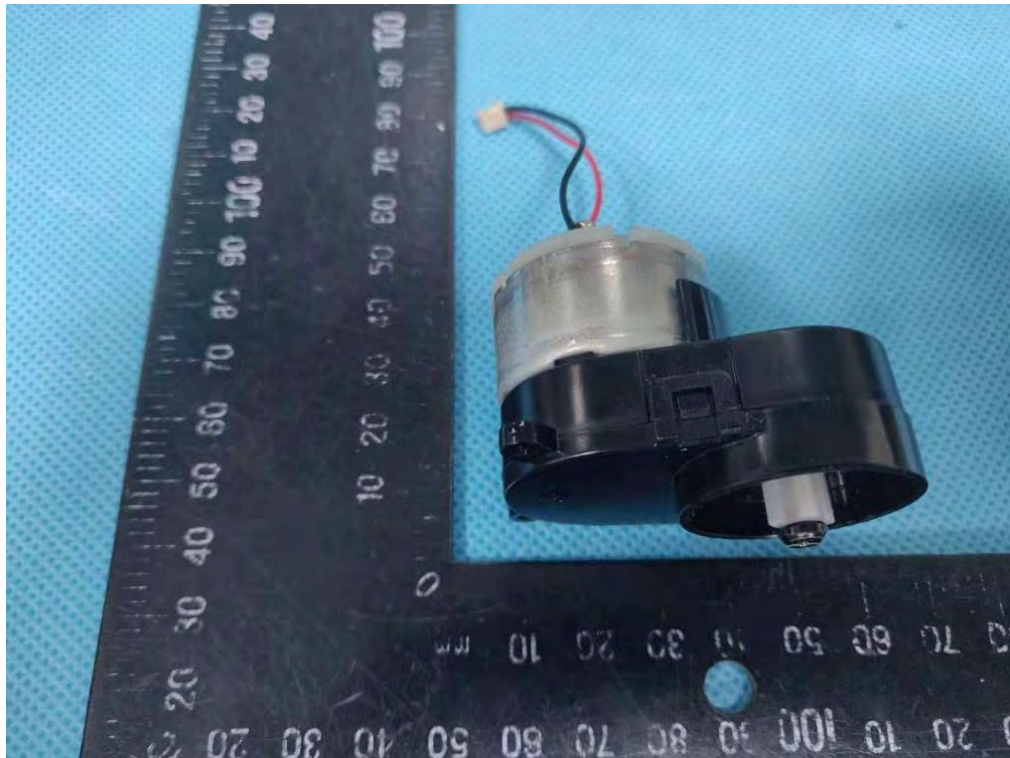


New accessories

Internal Photos



### Internal Photos



**End of Test Report**