

antenna shall be 1 m above the ground. For measurement above 30MHz, the trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1 m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission.

Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

(5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW.

| Frequency band   | RBW     |
|------------------|---------|
| 9 kHz - 150 kHz  | 200 Hz  |
| 150 kHz - 30 MHz | 9 kHz   |
| 30 MHz - 1 GHz   | 120 kHz |

(7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.

(8) For portable device, X axis, Y axis, Z axis are tested, and worse setup is reported.

### 13.4. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note2: 30 MHz ~ 25 GHz: (Scan with GFSK,  $\pi/4$ -DQPSK, the worst case is GFSK Mode)

Note3: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in GFSK, Tx 2480 MHz mode.

Note4: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

## Radiated Emission test (below 1 GHz)

## TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-08-18

Tested By: Bairong

EUT: Animato S1

Model Number: microphone

Test Mode: TX Mode

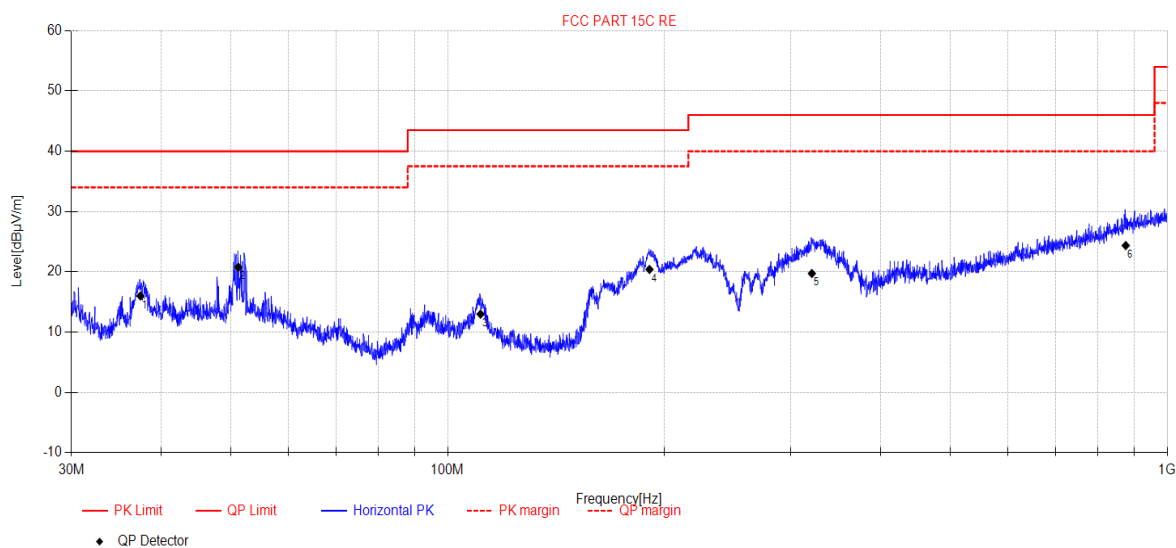
Power Supply: AC 120V/60Hz

Condition: Temp:22.0°C;Humi:56.3%

Test Site: DDT 3# Chamber

File Path: d:\ts\2023 report data\Q23070410-2E\FCC BELOW 1G\20230818-231801\_H

Memo: BT

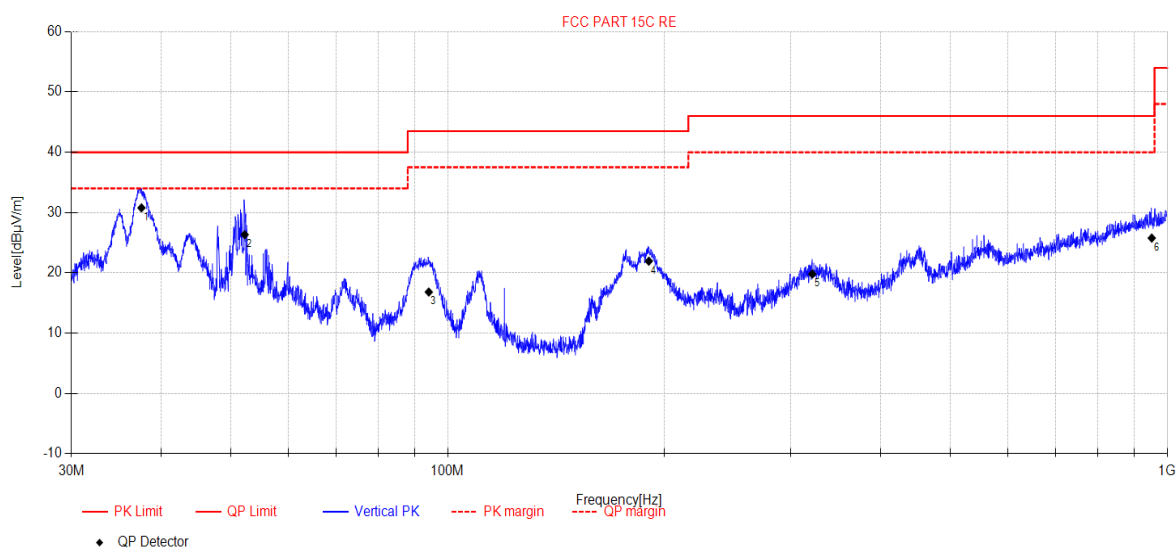


| Final Data List |             |                  |                     |                 |          |                 |                |             |          |            |
|-----------------|-------------|------------------|---------------------|-----------------|----------|-----------------|----------------|-------------|----------|------------|
| NO.             | Freq. [MHz] | Reading [dBμV/m] | Antenna Factor [dB] | Cable Loss [dB] | AMP [dB] | Result [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity   |
| 1               | 37.41       | 30.75            | 11.58               | 4.57            | -30.89   | 16.01           | 40.00          | 23.99       | QP       | Horizontal |
| 2               | 51.19       | 33.65            | 13.08               | 4.73            | -30.69   | 20.77           | 40.00          | 19.23       | QP       | Horizontal |
| 3               | 111.08      | 28.44            | 10.29               | 5.13            | -30.87   | 12.99           | 43.50          | 30.51       | QP       | Horizontal |
| 4               | 190.74      | 35.12            | 10.27               | 5.65            | -30.63   | 20.41           | 43.50          | 23.09       | QP       | Horizontal |
| 5               | 320.68      | 29.9             | 13.83               | 6.26            | -30.26   | 19.73           | 46.00          | 26.27       | QP       | Horizontal |
| 6               | 875.27      | 23.04            | 22.30               | 8.25            | -29.22   | 24.37           | 46.00          | 21.63       | QP       | Horizontal |

## Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-08-18**Tested By:** Bairong**EUT:** Animato S1**Model Number:** microphone**Test Mode:** TX Mode**Power Supply:** AC 120V/60Hz**Condition:** Temp:22.0°C;Humi:56.3%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2023 report data\Q23070410-2E\FCC BELOW 1G\20230818-231853\_V**Memo:** BT

| Final Data List |             |                  |                     |                 |          |                 |                |             |          |          |
|-----------------|-------------|------------------|---------------------|-----------------|----------|-----------------|----------------|-------------|----------|----------|
| NO.             | Freq. [MHz] | Reading [dBμV/m] | Antenna Factor [dB] | Cable Loss [dB] | AMP [dB] | Result [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity |
| 1               | 37.55       | 45.49            | 11.61               | 4.57            | -30.89   | 30.78           | 40.00          | 9.22        | QP       | Vertical |
| 2               | 52.24       | 39.3             | 12.98               | 4.74            | -30.69   | 26.33           | 40.00          | 13.67       | QP       | Vertical |
| 3               | 94.14       | 32.39            | 10.21               | 5.00            | -30.78   | 16.82           | 43.50          | 26.68       | QP       | Vertical |
| 4               | 190.33      | 36.69            | 10.23               | 5.65            | -30.63   | 21.94           | 43.50          | 21.56       | QP       | Vertical |
| 5               | 321.13      | 29.95            | 13.85               | 6.27            | -30.26   | 19.81           | 46.00          | 26.19       | QP       | Vertical |
| 6               | 951.44      | 23.09            | 22.70               | 8.52            | -28.54   | 25.77           | 46.00          | 20.23       | QP       | Vertical |

**Note:**

- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

## Radiated Emission test (above 1 GHz)

## TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-08-18

Tested By: Bairong

EUT: Animato S1

Model Number: microphone

Test Mode: TX Mode

Power Supply: AC 120V/60Hz

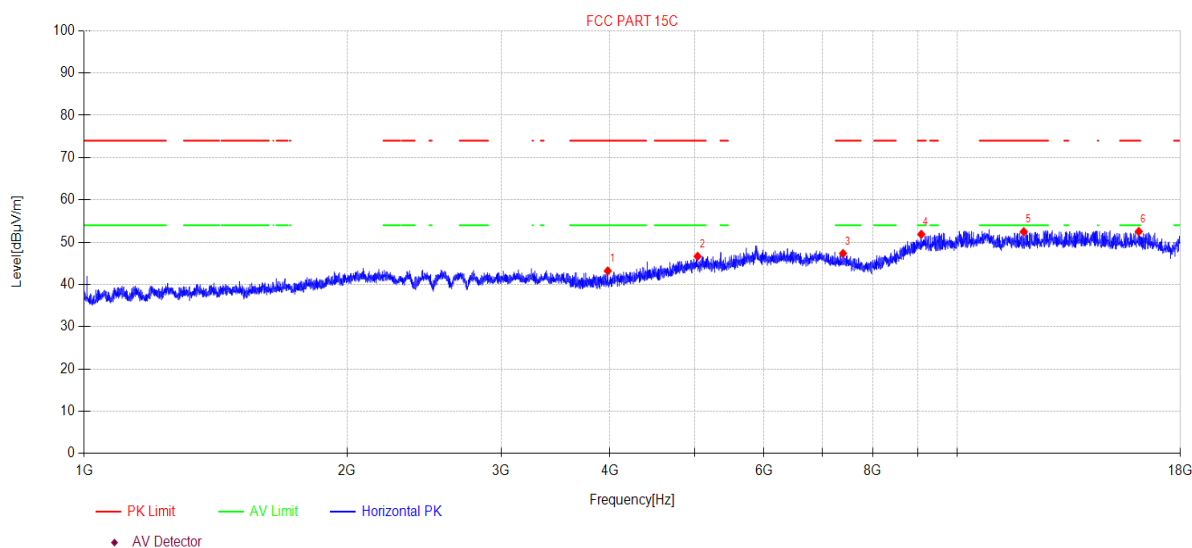
Condition: Temp:22.0°C;Humi:56.3%

Test Site: DDT 3# Chamber

File Path: d:\ts\2023 report data\Q23070410-2E\FCC ABOVE 1G\15

Memo: DH5 2402

## Test Graph



| Suspected Data List |             |                  |                 |                     |          |                |                |             |          |            |
|---------------------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|------------|
| N O.                | Freq. [MHz] | Reading [dBμV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity   |
| 1                   | 3976.11     | 47.14            | 5.84            | 30.65               | -40.44   | 43.19          | 74.00          | 30.81       | PK       | Horizontal |
| 2                   | 5039.42     | 45.91            | 7.93            | 32.88               | -40.07   | 46.65          | 74.00          | 27.35       | PK       | Horizontal |
| 3                   | 7395.00     | 44.88            | 7.64            | 36.50               | -41.69   | 47.33          | 74.00          | 26.67       | PK       | Horizontal |
| 4                   | 9089.83     | 43.68            | 8.75            | 38.20               | -38.78   | 51.85          | 74.00          | 22.15       | PK       | Horizontal |
| 5                   | 11910.01    | 42.72            | 10.46           | 38.81               | -39.52   | 52.47          | 74.00          | 21.53       | PK       | Horizontal |
| 6                   | 16132.53    | 38.86            | 15.36           | 37.77               | -39.47   | 52.52          | 74.00          | 21.48       | PK       | Horizontal |

## Note:

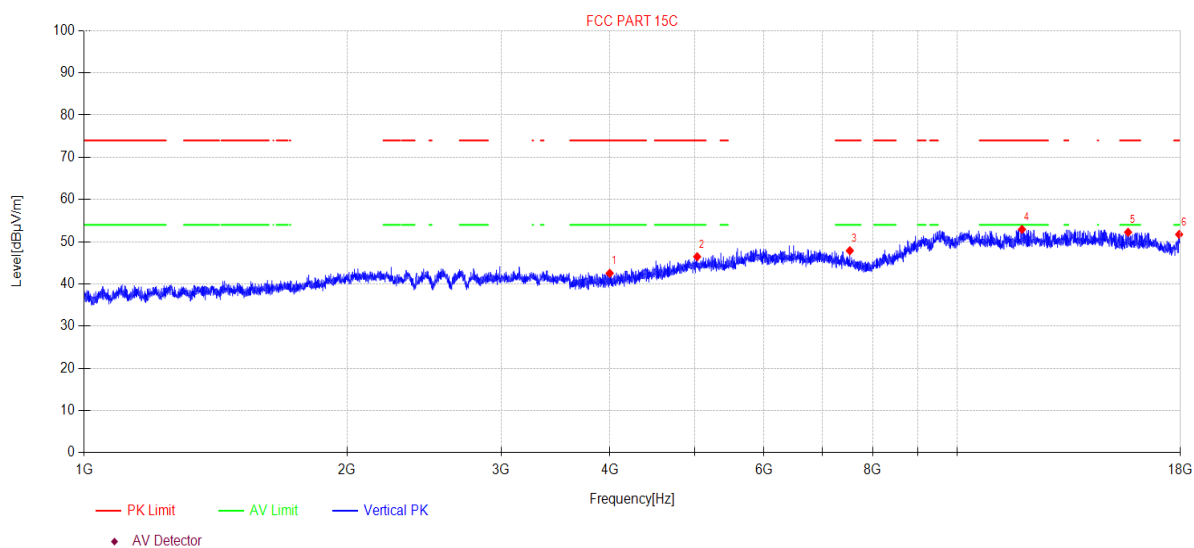
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-08-18  
**EUT:** Animato S1  
**Test Mode:** TX Mode  
**Condition:** Temp:22.0°C;Humi:56.3%  
**File Path:** d:\ts\2023 report data\Q23070410-2E\FCC ABOVE 1G\16  
**Memo:** DH5 2402

**Tested By:** Bairong  
**Model Number:** microphone  
**Power Supply:** AC 120V/60Hz  
**Test Site:** DDT 3# Chamber

### Test Graph



### Suspected Data List

| N O. | Freq. [MHz] | Reading [dBμV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity |
|------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|----------|
| 1    | 3996.85     | 46.44            | 5.85            | 30.69               | -40.45   | 42.53          | 74.00          | 31.47       | PK       | Vertical |
| 2    | 5033.59     | 45.74            | 7.92            | 32.87               | -40.08   | 46.45          | 74.00          | 27.55       | PK       | Vertical |
| 3    | 7528.70     | 45.84            | 7.65            | 36.40               | -42.02   | 47.87          | 74.00          | 26.13       | PK       | Vertical |
| 4    | 11855.06    | 43.20            | 10.41           | 38.80               | -39.49   | 52.92          | 74.00          | 21.08       | PK       | Vertical |
| 5    | 15682.02    | 38.66            | 14.44           | 38.32               | -39.17   | 52.25          | 74.00          | 21.75       | PK       | Vertical |
| 6    | 17942.87    | 39.47            | 13.06           | 41.46               | -42.27   | 51.72          | 74.00          | 22.28       | PK       | Vertical |

### Note:

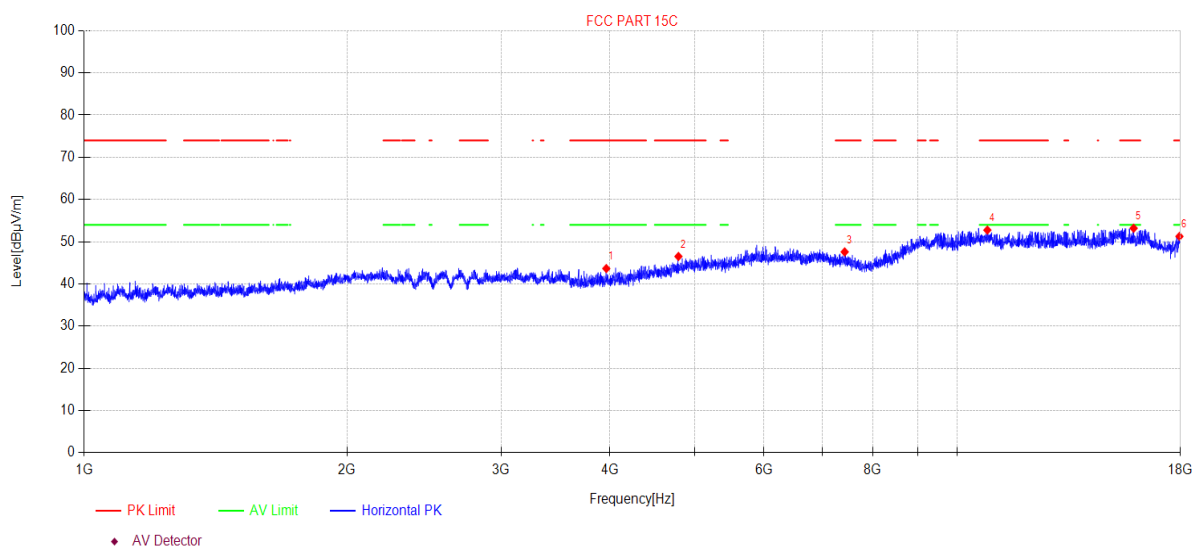
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-08-18  
**EUT:** Animato S1  
**Test Mode:** TX Mode  
**Condition:** Temp:22.0°C;Humi:56.3%  
**File Path:** d:\ts\2023 report data\Q23070410-2E\FCC ABOVE 1G\17  
**Memo:** DH5 2441

**Tested By:** Bairong  
**Model Number:** microphone  
**Power Supply:** AC 120V/60Hz  
**Test Site:** DDT 3# Chamber

### Test Graph



### Suspected Data List

| N O. | Freq. [MHz] | Reading [dBμV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity   |
|------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|------------|
| 1    | 3961.20     | 47.62            | 5.84            | 30.62               | -40.43   | 43.65          | 74.00          | 30.35       | PK       | Horizontal |
| 2    | 4790.88     | 46.96            | 7.45            | 32.26               | -40.16   | 46.51          | 74.00          | 27.49       | PK       | Horizontal |
| 3    | 7427.13     | 45.22            | 7.64            | 36.50               | -41.77   | 47.59          | 74.00          | 26.41       | PK       | Horizontal |
| 4    | 10820.35    | 43.16            | 9.52            | 39.10               | -39.02   | 52.76          | 74.00          | 21.24       | PK       | Horizontal |
| 5    | 15914.88    | 38.95            | 15.49           | 38.07               | -39.31   | 53.20          | 74.00          | 20.80       | PK       | Horizontal |
| 6    | 17958.43    | 38.95            | 13.08           | 41.55               | -42.31   | 51.27          | 74.00          | 22.73       | PK       | Horizontal |

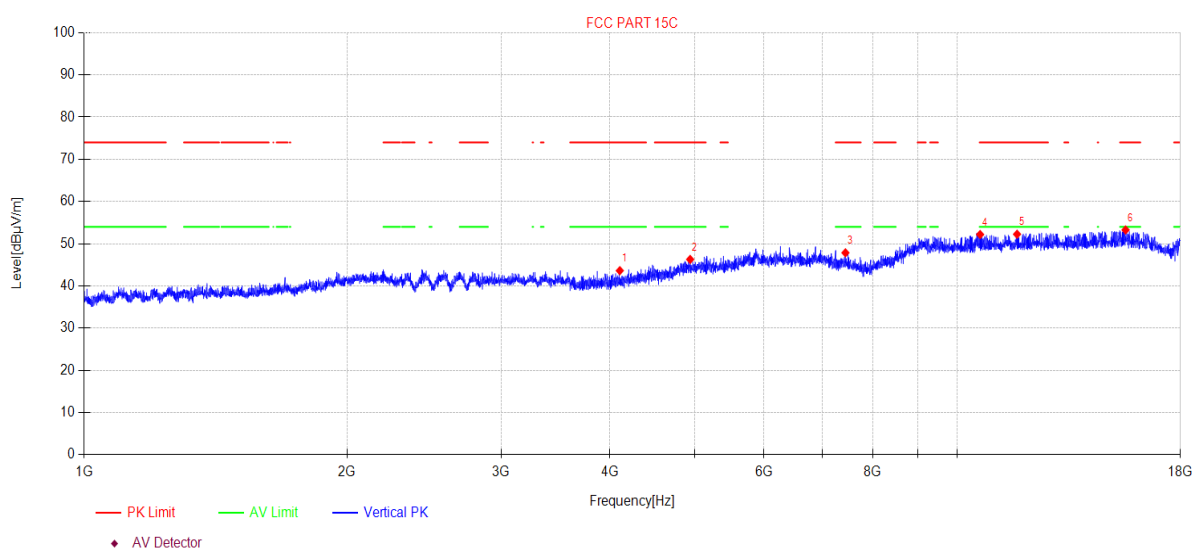
### Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-08-18**Tested By:** Bairong**EUT:** Animato S1**Model Number:** microphone**Test Mode:** TX Mode**Power Supply:** AC 120V/60Hz**Condition:** Temp:22.0°C;Humi:56.3%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2023 report data\Q23070410-2E\FCC ABOVE 1G\18**Memo:** DH5 2441

### Test Graph



### Suspected Data List

| N O. | Freq. [MHz] | Reading [dBμV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity |
|------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|----------|
| 1    | 4104.54     | 47.06            | 6.06            | 30.91               | -40.41   | 43.62          | 74.00          | 30.38       | PK       | Vertical |
| 2    | 4941.35     | 45.87            | 7.75            | 32.77               | -40.10   | 46.29          | 74.00          | 27.71       | PK       | Vertical |
| 3    | 7442.17     | 45.53            | 7.64            | 36.50               | -41.81   | 47.86          | 74.00          | 26.14       | PK       | Vertical |
| 4    | 10615.91    | 42.74            | 9.38            | 39.02               | -38.95   | 52.19          | 74.00          | 21.81       | PK       | Vertical |
| 5    | 11701.88    | 42.61            | 10.27           | 38.80               | -39.42   | 52.26          | 74.00          | 21.74       | PK       | Vertical |
| 6    | 15578.12    | 39.96            | 13.97           | 38.44               | -39.11   | 53.26          | 74.00          | 20.74       | PK       | Vertical |

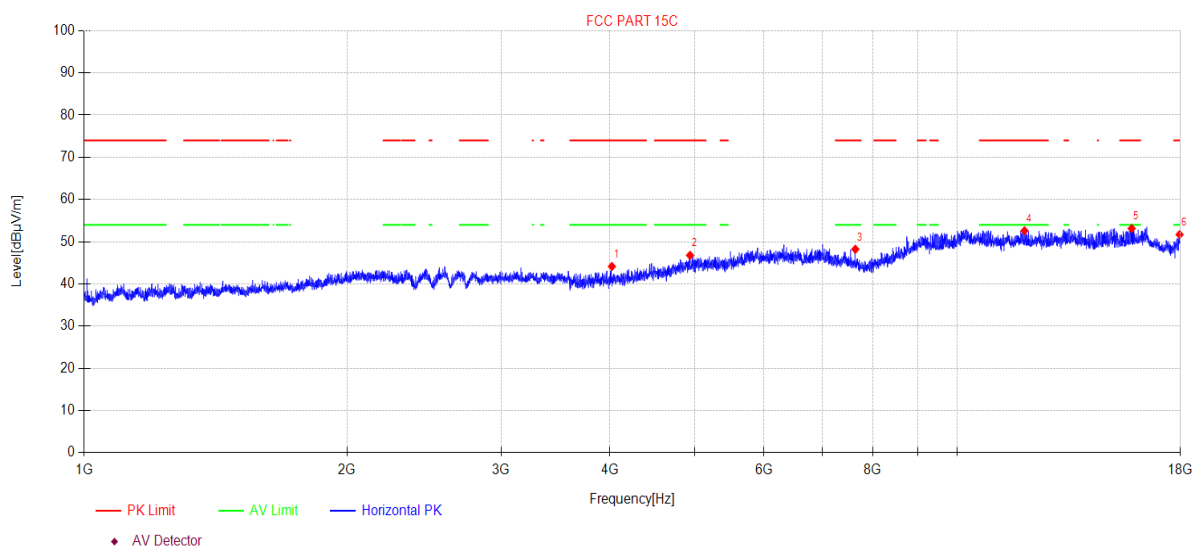
**Note:**

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-08-18**Tested By:** Bairong**EUT:** Animato S1**Model Number:** microphone**Test Mode:** TX Mode**Power Supply:** AC 120V/60Hz**Condition:** Temp:22.0°C;Humi:56.3%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2023 report data\Q23070410-2E\FCC ABOVE 1G\19**Memo:** DH5 2480

### Test Graph



### Suspected Data List

| N O. | Freq. [MHz] | Reading [dBμV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity   |
|------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|------------|
| 1    | 4020.02     | 47.95            | 5.89            | 30.74               | -40.44   | 44.14          | 74.00          | 29.86       | PK       | Horizontal |
| 2    | 4939.92     | 46.37            | 7.75            | 32.76               | -40.10   | 46.78          | 74.00          | 27.22       | PK       | Horizontal |
| 3    | 7638.29     | 46.40            | 7.65            | 36.48               | -42.30   | 48.23          | 74.00          | 25.77       | PK       | Horizontal |
| 4    | 11934.13    | 42.83            | 10.48           | 38.83               | -39.53   | 52.61          | 74.00          | 21.39       | PK       | Horizontal |
| 5    | 15832.30    | 39.10            | 15.12           | 38.17               | -39.26   | 53.13          | 74.00          | 20.87       | PK       | Horizontal |
| 6    | 17963.62    | 39.35            | 13.09           | 41.58               | -42.32   | 51.70          | 74.00          | 22.30       | PK       | Horizontal |

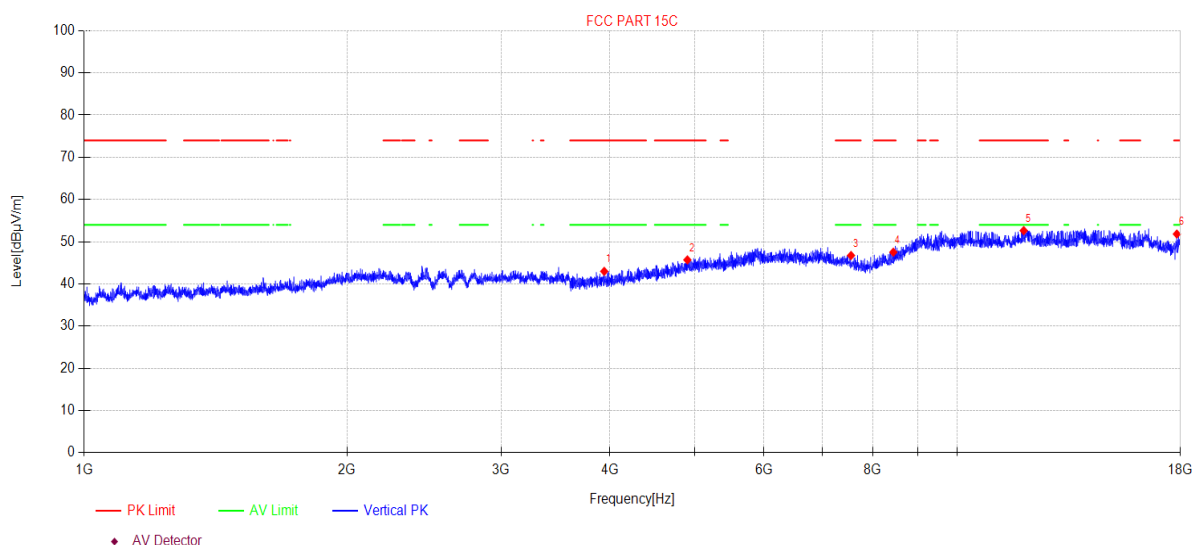
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-08-18**Tested By:** Bairong**EUT:** Animato S1**Model Number:** microphone**Test Mode:** TX Mode**Power Supply:** AC 120V/60Hz**Condition:** Temp:22.0°C;Humi:56.3%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2023 report data\Q23070410-2E\FCC ABOVE 1G\20**Memo:** DH5 2480

### Test Graph



### Suspected Data List

| N O. | Freq. [MHz] | Reading [dBμV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity |
|------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|----------|
| 1    | 3939.51     | 46.98            | 5.84            | 30.58               | -40.41   | 42.99          | 74.00          | 31.01       | PK       | Vertical |
| 2    | 4905.77     | 45.50            | 7.68            | 32.62               | -40.11   | 45.69          | 74.00          | 28.31       | PK       | Vertical |
| 3    | 7552.68     | 44.77            | 7.65            | 36.40               | -42.08   | 46.74          | 74.00          | 27.26       | PK       | Vertical |
| 4    | 8444.02     | 43.22            | 8.15            | 37.39               | -41.24   | 47.52          | 74.00          | 26.48       | PK       | Vertical |
| 5    | 11910.01    | 42.88            | 10.46           | 38.81               | -39.52   | 52.63          | 74.00          | 21.37       | PK       | Vertical |
| 6    | 17834.30    | 40.19            | 12.93           | 40.74               | -42.03   | 51.83          | 74.00          | 22.17       | PK       | Vertical |

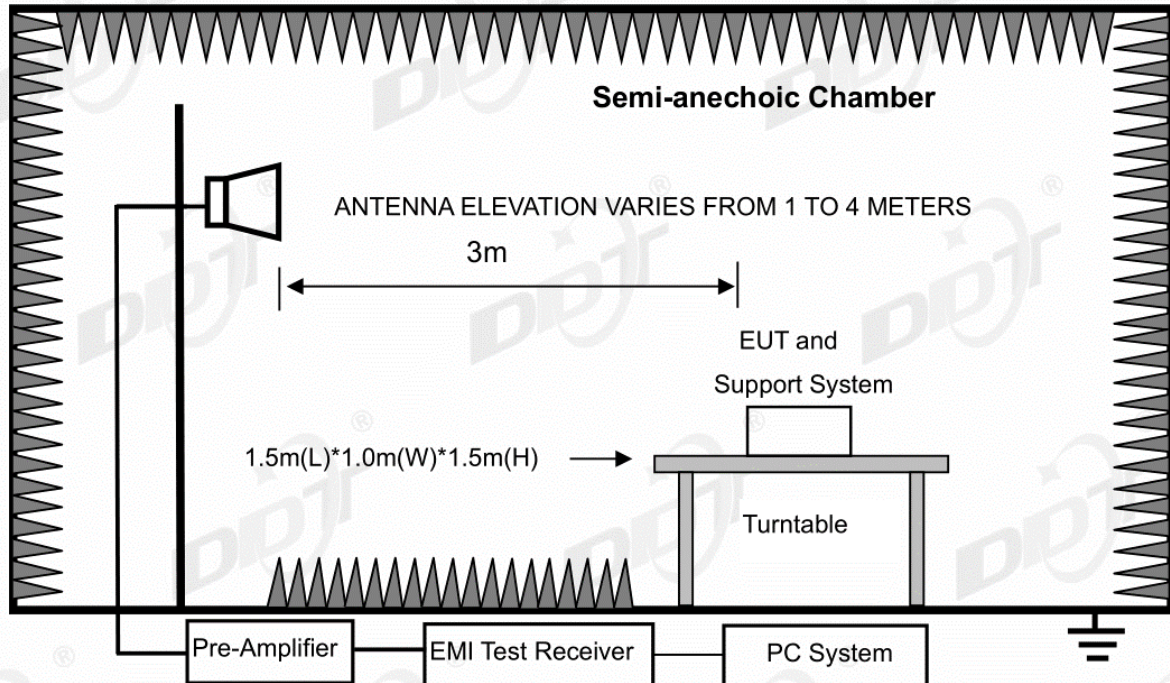
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## 14. Band Edge Compliance (Radiated Method)

### 14.1. Block diagram of test setup

In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



### 14.2. Limit

All restriction band should comply with 15.209 limits, other emission should be at least 20 dB below the fundamental.

### 14.3. Test Procedure

Same with Radiated Emission except change investigated frequency range from 2310 MHz to 2410 MHz and 2475 MHz to 2500 MHz.

Remark: All restriction band have been tested, and only the worst case is shown in report.

### 14.4. Test result

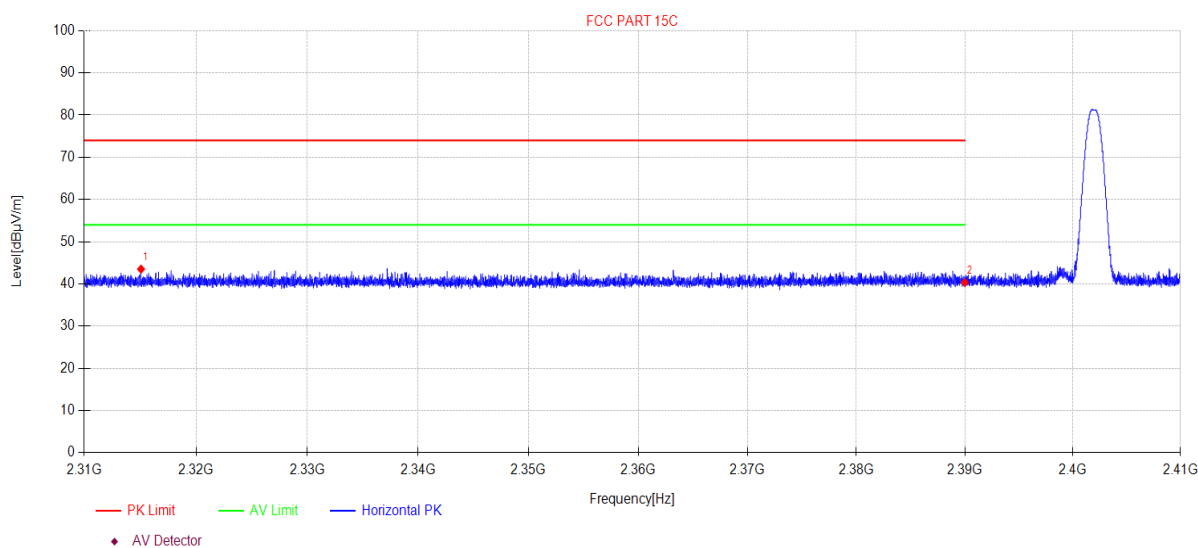
Pass. (See below detailed test result)

Remark: hopping on and hopping off mode all have been test, hopping off mode is worse and reported only. Scan with all mode, the worst case is recorded in this report.

## TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-08-18 **Tested By:** Bairong  
**EUT:** Animato S1 **Model Number:** microphone  
**Test Mode:** TX Mode **Power Supply:** AC 120V/60Hz  
**Condition:** Temp:22.0°C;Humi:56.3% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23070410-2E\FCC ABOVE 1G\21  
**Memo:** DH5 2402

### Test Graph



### Suspected Data List

| NO | Freq. [MHz] | Reading [dBμV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity   |
|----|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|------------|
| 1  | 2315.07     | 50.27            | 3.81            | 27.33               | -37.90   | 43.51          | 74.00          | 30.49       | PK       | Horizontal |
| 2  | 2390.00     | 47.09            | 3.87            | 27.48               | -38.11   | 40.33          | 74.00          | 33.67       | PK       | Horizontal |

Note:

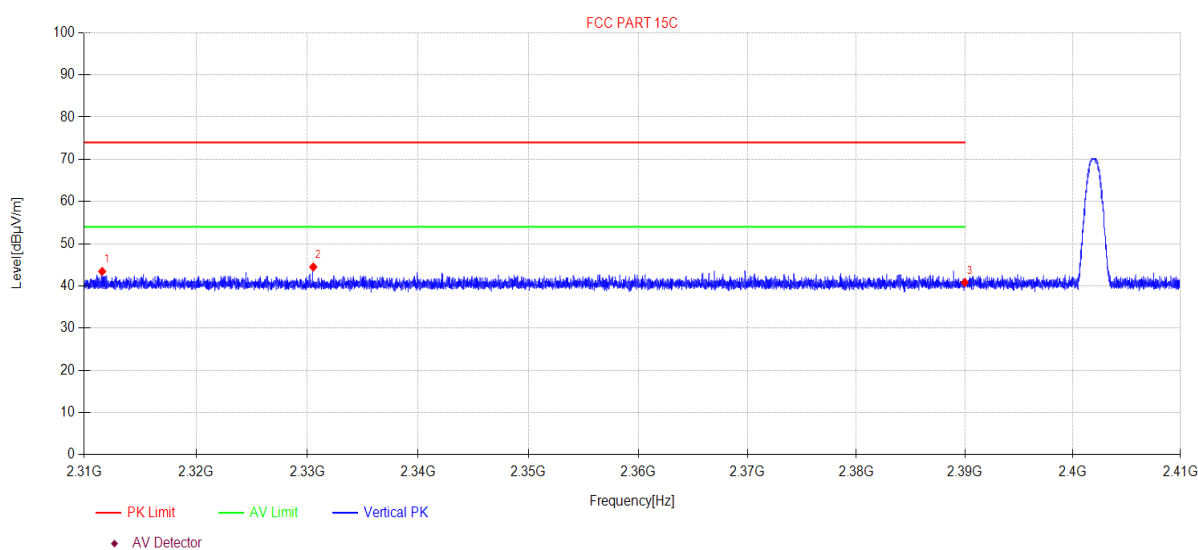
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-08-18  
**EUT:** Animato S1  
**Test Mode:** TX Mode  
**Condition:** Temp:22.0°C;Humi:56.3%  
**File Path:** d:\ts\2023 report data\Q23070410-2E\FCC ABOVE 1G\22  
**Memo:** DH5 2402

**Tested By:** Bairong  
**Model Number:** microphone  
**Power Supply:** AC 120V/60Hz  
**Test Site:** DDT 3# Chamber

### Test Graph



### Suspected Data List

| NO | Freq. [MHz] | Reading [dBμV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity |
|----|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|----------|
| 1  | 2311.59     | 50.19            | 3.81            | 27.32               | -37.89   | 43.43          | 74.00          | 30.57       | PK       | Vertical |
| 2  | 2330.54     | 51.26            | 3.82            | 27.36               | -37.95   | 44.49          | 74.00          | 29.51       | PK       | Vertical |
| 3  | 2390.00     | 47.57            | 3.87            | 27.48               | -38.11   | 40.81          | 74.00          | 33.19       | PK       | Vertical |

### Note:

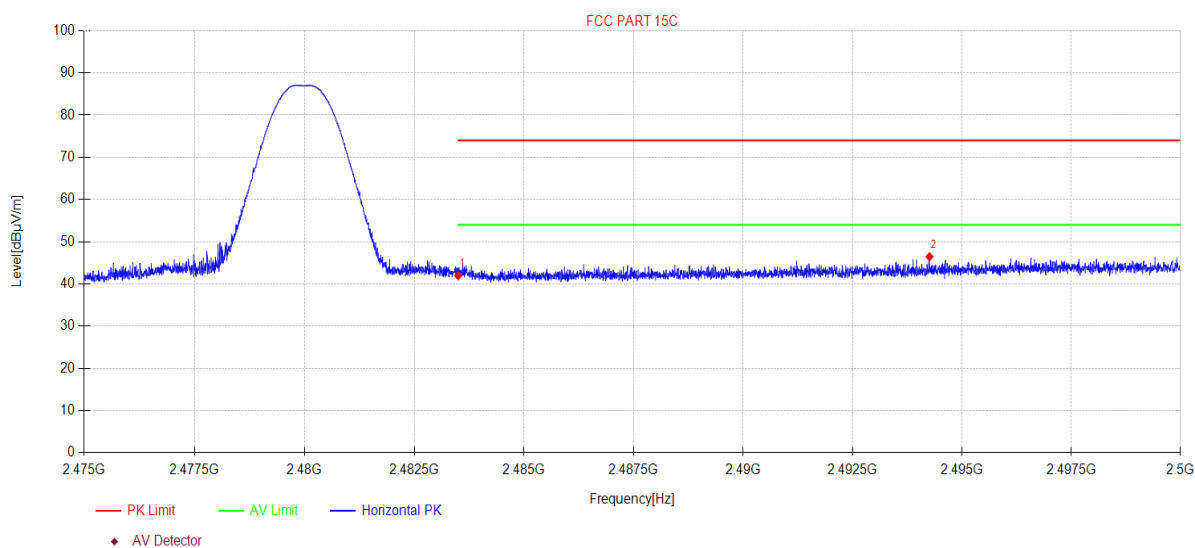
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-08-18  
**EUT:** Animato S1  
**Test Mode:** TX Mode  
**Condition:** Temp:22.0°C;Humi:56.3%  
**File Path:** d:\ts\2023 report data\Q23070410-2E\FCC ABOVE 1G\25  
**Memo:** DH5 2480

**Tested By:** Bairong  
**Model Number:** microphone  
**Power Supply:** AC 120V/60Hz  
**Test Site:** DDT 3# Chamber

### Test Graph



### Suspected Data List

| NO | Freq. [MHz] | Reading [dBμV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity   |
|----|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|------------|
| 1  | 2483.50     | 48.67            | 3.94            | 27.73               | -38.38   | 41.96          | 74.00          | 32.04       | PK       | Horizontal |
| 2  | 2494.26     | 53.15            | 3.95            | 27.78               | -38.41   | 46.47          | 74.00          | 27.53       | PK       | Horizontal |

### Note:

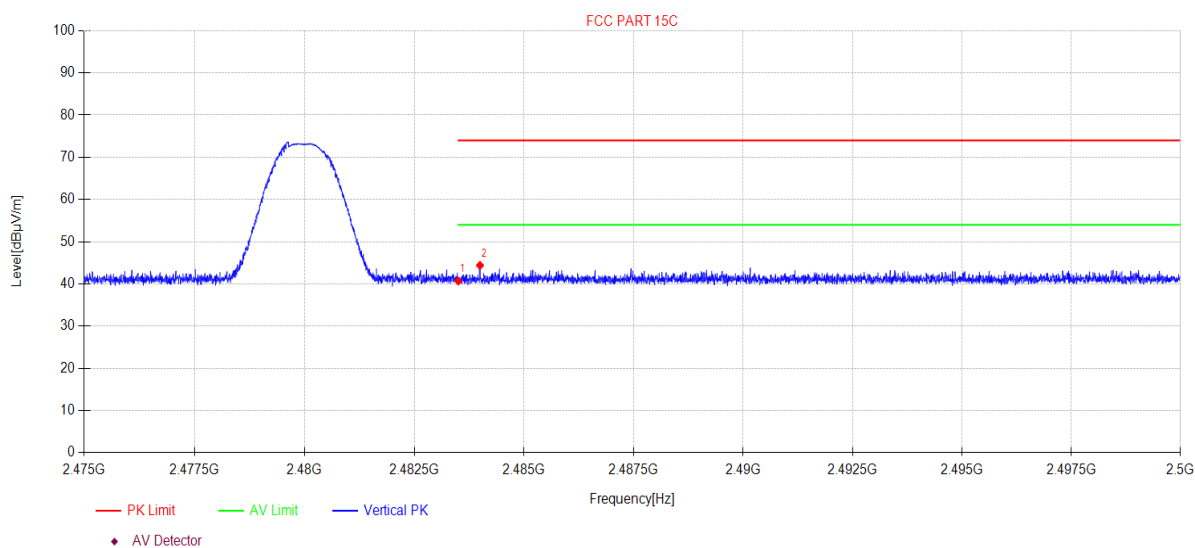
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-08-18  
**EUT:** Animato S1  
**Test Mode:** TX Mode  
**Condition:** Temp:22.0°C;Humi:56.3%  
**File Path:** d:\ts\2023 report data\Q23070410-2E\FCC ABOVE 1G\26  
**Memo:** DH5 2480

**Tested By:** Bairong  
**Model Number:** microphone  
**Power Supply:** AC 120V/60Hz  
**Test Site:** DDT 3# Chamber

### Test Graph



### Suspected Data List

| NO | Freq. [MHz] | Reading [dBμV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity |
|----|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|----------|
| 1  | 2483.50     | 47.41            | 3.94            | 27.73               | -38.38   | 40.70          | 74.00          | 33.30       | PK       | Vertical |
| 2  | 2484.00     | 51.09            | 3.94            | 27.74               | -38.38   | 44.39          | 74.00          | 29.61       | PK       | Vertical |

Note:

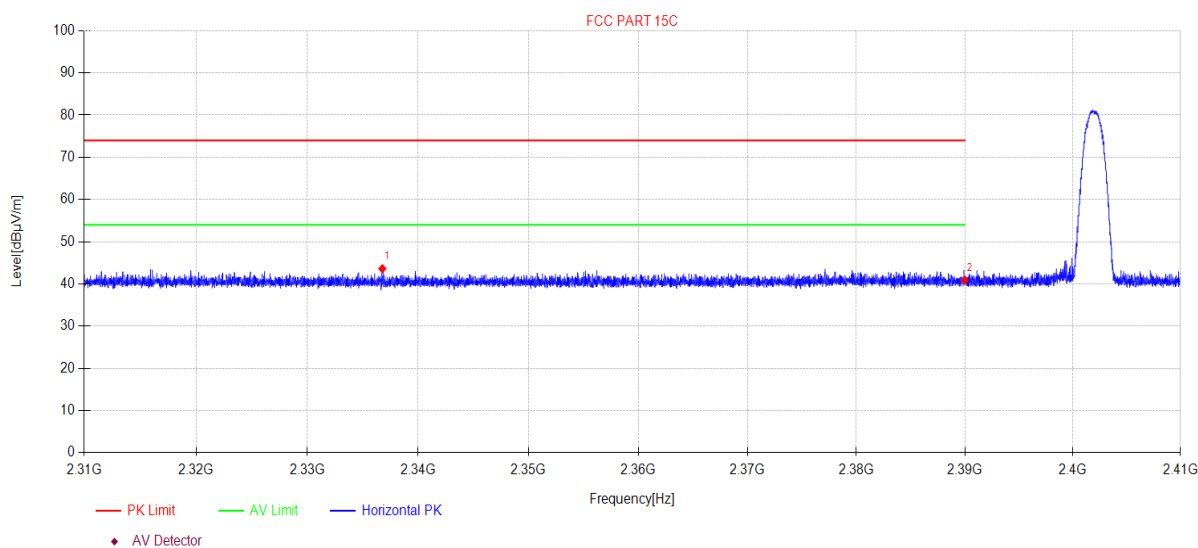
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-08-18  
**EUT:** Animato S1  
**Test Mode:** TX Mode  
**Condition:** Temp:22.0°C;Humi:56.3%  
**File Path:** d:\ts\2023 report data\Q23070410-2E\FCC ABOVE 1G\23  
**Memo:** 2DH5 2402

**Tested By:** Bairong  
**Model Number:** microphone  
**Power Supply:** AC 120V/60Hz  
**Test Site:** DDT 3# Chamber

### Test Graph



### Suspected Data List

| NO | Freq. [MHz] | Reading [dBμV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity   |
|----|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|------------|
| 1  | 2336.77     | 50.38            | 3.83            | 27.37               | -37.96   | 43.62          | 74.00          | 30.38       | PK       | Horizontal |
| 2  | 2390.00     | 47.63            | 3.87            | 27.48               | -38.11   | 40.87          | 74.00          | 33.13       | PK       | Horizontal |

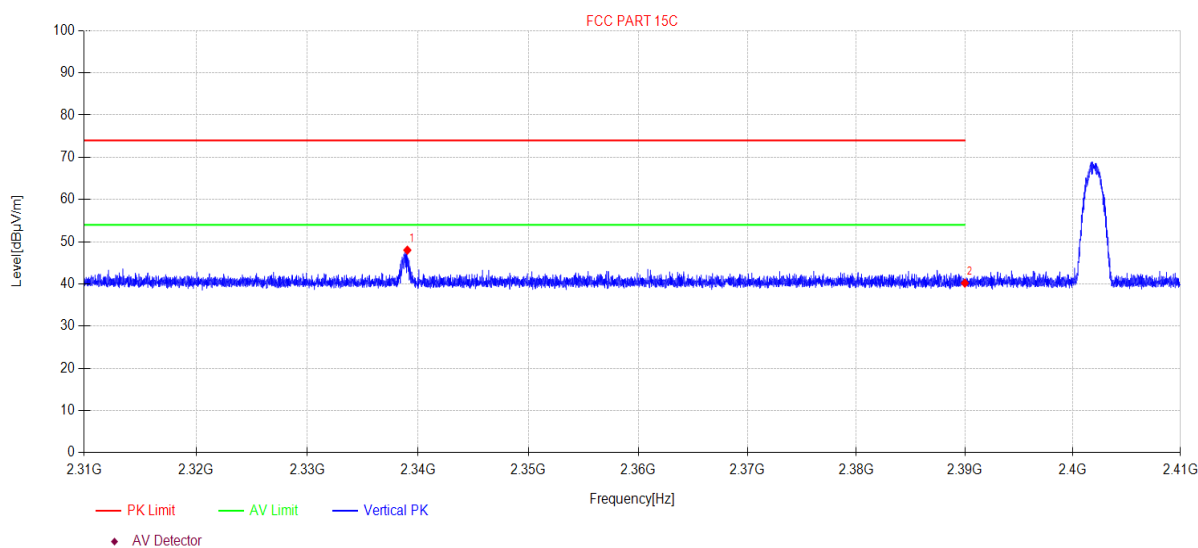
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-08-18 **Tested By:** Bairong  
**EUT:** Animato S1 **Model Number:** microphone  
**Test Mode:** TX Mode **Power Supply:** AC 120V/60Hz  
**Condition:** Temp:22.0°C;Humi:56.3% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23070410-2E\FCC ABOVE 1G\24  
**Memo:** 2DH5 2402

### Test Graph



### Suspected Data List

| NO | Freq. [MHz] | Reading [dBμV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity |
|----|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|----------|
| 1  | 2339.03     | 54.76            | 3.83            | 27.38               | -37.97   | 48.00          | 74.00          | 26.00       | PK       | Vertical |
| 2  | 2390.00     | 46.96            | 3.87            | 27.48               | -38.11   | 40.20          | 74.00          | 33.80       | PK       | Vertical |

Note:

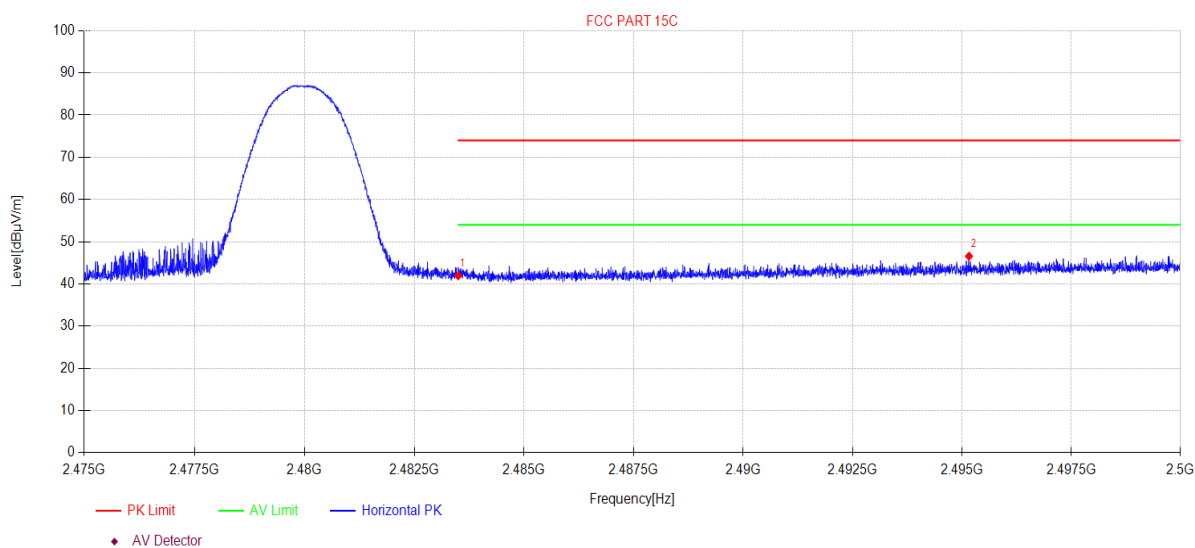
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-08-18  
**EUT:** Animato S1  
**Test Mode:** TX Mode  
**Condition:** Temp:22.0°C;Humi:56.3%  
**File Path:** d:\ts\2023 report data\Q23070410-2E\FCC ABOVE 1G\27  
**Memo:** 2DH5 2480

**Tested By:** Bairong  
**Model Number:** microphone  
**Power Supply:** AC 120V/60Hz  
**Test Site:** DDT 3# Chamber

### Test Graph



### Suspected Data List

| NO | Freq. [MHz] | Reading [dBμV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity   |
|----|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|------------|
| 1  | 2483.50     | 48.65            | 3.94            | 27.73               | -38.38   | 41.94          | 74.00          | 32.06       | PK       | Horizontal |
| 2  | 2495.16     | 53.24            | 3.95            | 27.78               | -38.41   | 46.56          | 74.00          | 27.44       | PK       | Horizontal |

#### Note:

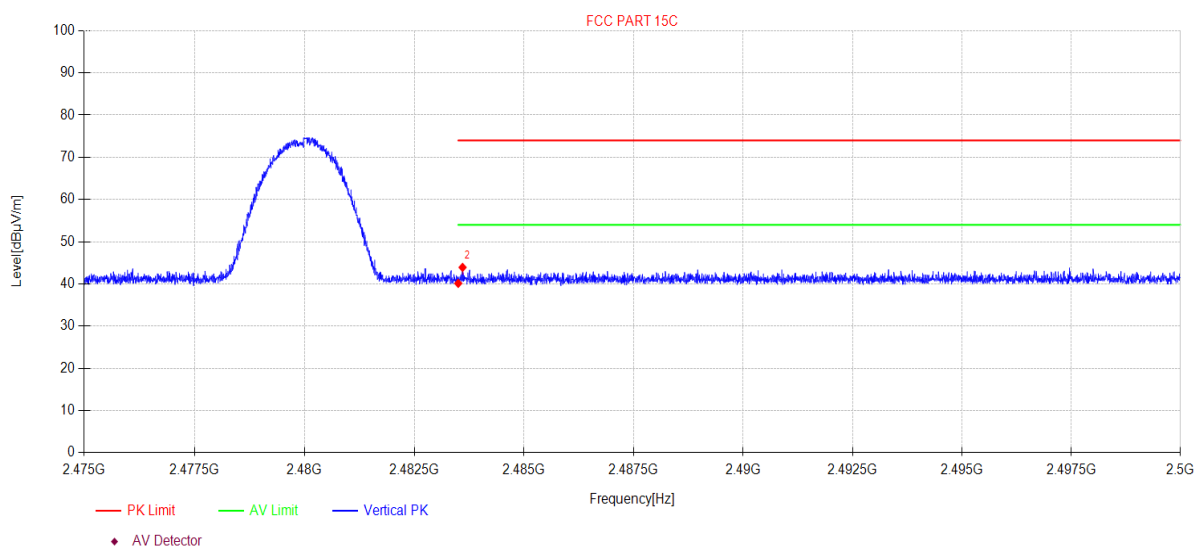
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-08-18  
**EUT:** Animato S1  
**Test Mode:** TX Mode  
**Condition:** Temp:22.0°C;Humi:56.3%  
**File Path:** d:\ts\2023 report data\Q23070410-2E\FCC ABOVE 1G\28  
**Memo:** 2DH5 2480

**Tested By:** Bairong  
**Model Number:** microphone  
**Power Supply:** AC 120V/60Hz  
**Test Site:** DDT 3# Chamber

### Test Graph



### Suspected Data List

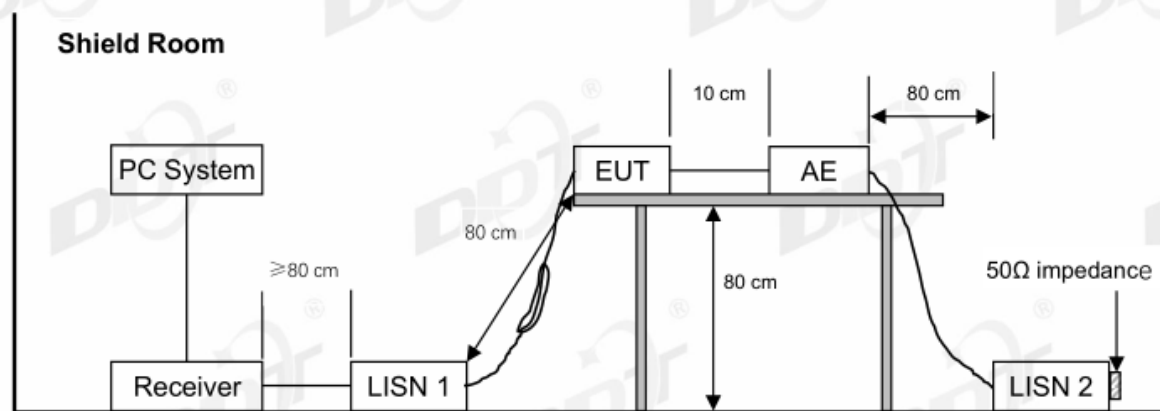
| NO | Freq. [MHz] | Reading [dBμV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity |
|----|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|----------|
| 1  | 2483.50     | 46.84            | 3.94            | 27.73               | -38.38   | 40.13          | 74.00          | 33.87       | PK       | Vertical |
| 2  | 2483.60     | 50.63            | 3.94            | 27.73               | -38.38   | 43.92          | 74.00          | 30.08       | PK       | Vertical |

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## 15. Power Line Conducted Emission

### 15.1. Block diagram of test setup



### 15.2. Power line conducted emission limits

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

Note 1: \* Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

### 15.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest

emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

#### 15.4. Test result

**Pass. (See below detailed test result)**

Note1: All emissions not reported below are too low against the prescribed limits.

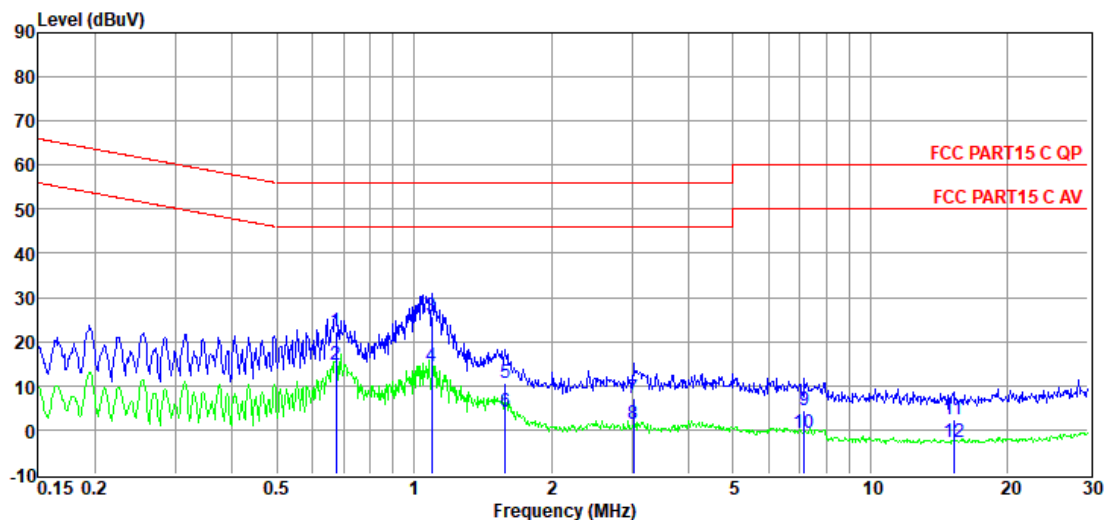
Note2: “----” means Peak detection; “-----” means Average detection.

Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded the worst case.

## TR-4-E-010 Conducted Emission Test Result

**Test Site** : DDT 1# Shield Room **D:\2023 CE report data\Q23070410-2E K15\FCC.EM6**  
**Test Date** : 2023-08-18 **Tested By** : Bairong  
**EUT** : Animato S1 **Model Number** : microphone  
**Power Supply** : AC 120V/60Hz **Test Mode** : TX  
**Condition** : TEMP:23.2°C, RH:53.1%, BP:101.1kPa **LISN** : 2022 1# ENV216/NEUTRAL  
**Memo** : BT

Data: 6



| Item   | Freq. | Read Level | LISN Factor | Cable Loss | Pulse Limiter Factor | Result Level | Limit Line | Over Limit | Detector | Phase   |
|--------|-------|------------|-------------|------------|----------------------|--------------|------------|------------|----------|---------|
| (Mark) | (MHz) | (dBμV)     | (dB)        | (dB)       | (dB)                 | (dBμV)       | (dBμV)     | (dB)       |          |         |
| 1      | 0.68  | 2.63       | 9.78        | 0.01       | 9.92                 | 22.34        | 56.00      | -33.66     | QP       | NEUTRAL |
| 2      | 0.68  | -5.14      | 9.78        | 0.01       | 9.92                 | 14.57        | 46.00      | -31.43     | Average  | NEUTRAL |
| 3      | 1.09  | 5.99       | 9.70        | 0.02       | 9.91                 | 25.62        | 56.00      | -30.38     | QP       | NEUTRAL |
| 4      | 1.09  | -5.31      | 9.70        | 0.02       | 9.91                 | 14.32        | 46.00      | -31.68     | Average  | NEUTRAL |
| 5      | 1.59  | -8.85      | 9.70        | 0.03       | 9.90                 | 10.78        | 56.00      | -45.22     | QP       | NEUTRAL |
| 6      | 1.59  | -15.46     | 9.70        | 0.03       | 9.90                 | 4.17         | 46.00      | -41.83     | Average  | NEUTRAL |
| 7      | 3.03  | -12.32     | 9.70        | 0.04       | 9.91                 | 7.33         | 56.00      | -48.67     | QP       | NEUTRAL |
| 8      | 3.03  | -18.34     | 9.70        | 0.04       | 9.91                 | 1.31         | 46.00      | -44.69     | Average  | NEUTRAL |
| 9      | 7.18  | -15.03     | 9.61        | 0.07       | 9.92                 | 4.57         | 60.00      | -55.43     | QP       | NEUTRAL |
| 10     | 7.18  | -20.26     | 9.61        | 0.07       | 9.92                 | -0.66        | 50.00      | -50.66     | Average  | NEUTRAL |
| 11     | 15.23 | -17.32     | 9.71        | 0.12       | 9.95                 | 2.46         | 60.00      | -57.54     | QP       | NEUTRAL |
| 12     | 15.23 | -22.42     | 9.71        | 0.12       | 9.95                 | -2.64        | 50.00      | -52.64     | Average  | NEUTRAL |

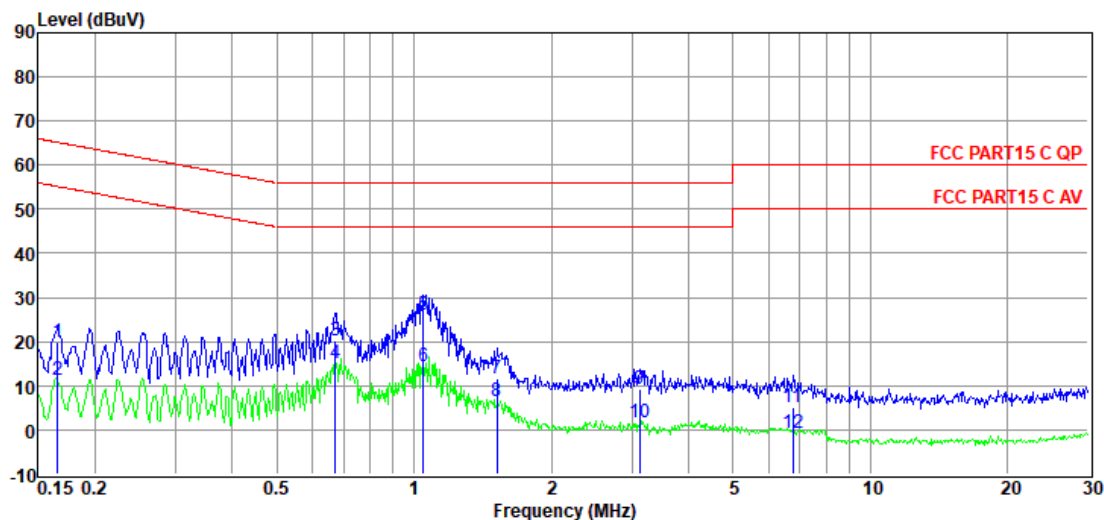
Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

## TR-4-E-010 Conducted Emission Test Result

**Test Site** : DDT 1# Shield Room **D:\2023 CE report data\Q23070410-2E K15\FCC.EM6**  
**Test Date** : 2023-08-18 **Tested By** : Bairong  
**EUT** : Animato S1 **Model Number** : microphone  
**Power Supply** : AC 120V/60Hz **Test Mode** : TX  
**Condition** : TEMP:23.2°C, RH:53.1%, BP:101.1kPa **LISN** : 2022 1# ENV216/LINE  
**Memo** : BT

Data: 8



| Item   | Freq. | Read Level | LISN Factor | Cable Loss | Pulse Limiter Factor | Result Level | Limit Line | Over Limit | Detector | Phase |
|--------|-------|------------|-------------|------------|----------------------|--------------|------------|------------|----------|-------|
| (Mark) | (MHz) | (dBμV)     | (dB)        | (dB)       | (dB)                 | (dBμV)       | (dBμV)     | (dB)       |          |       |
| 1      | 0.17  | 0.38       | 9.67        | 0.01       | 9.93                 | 19.99        | 65.16      | -45.17     | QP       | LINE  |
| 2      | 0.17  | -8.29      | 9.67        | 0.01       | 9.93                 | 11.32        | 55.16      | -43.84     | Average  | LINE  |
| 3      | 0.67  | 0.71       | 9.61        | 0.01       | 9.92                 | 20.25        | 56.00      | -35.75     | QP       | LINE  |
| 4      | 0.67  | -4.40      | 9.61        | 0.01       | 9.92                 | 15.14        | 46.00      | -30.86     | Average  | LINE  |
| 5      | 1.05  | 6.57       | 9.51        | 0.02       | 9.91                 | 26.01        | 56.00      | -29.99     | QP       | LINE  |
| 6      | 1.05  | -5.00      | 9.51        | 0.02       | 9.91                 | 14.44        | 46.00      | -31.56     | Average  | LINE  |
| 7      | 1.52  | -7.92      | 9.56        | 0.03       | 9.90                 | 11.57        | 56.00      | -44.43     | QP       | LINE  |
| 8      | 1.52  | -13.16     | 9.56        | 0.03       | 9.90                 | 6.33         | 46.00      | -39.67     | Average  | LINE  |
| 9      | 3.12  | -10.42     | 9.54        | 0.04       | 9.91                 | 9.07         | 56.00      | -46.93     | QP       | LINE  |
| 10     | 3.12  | -17.67     | 9.54        | 0.04       | 9.91                 | 1.82         | 46.00      | -44.18     | Average  | LINE  |
| 11     | 6.77  | -14.41     | 9.59        | 0.07       | 9.92                 | 5.17         | 60.00      | -54.83     | QP       | LINE  |
| 12     | 6.77  | -20.23     | 9.59        | 0.07       | 9.92                 | -0.65        | 50.00      | -50.65     | Average  | LINE  |

Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

## 16. Antenna Requirements

### 16.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 16.2. Result

The antenna used for this product is Chip antenna antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 2.7 dBi.

## 18. Photos of the EUT

Please refer to appendix DDT-Q23070410-1E02.

**END OF REPORT**