

## FCC Test Report

|              |                              |
|--------------|------------------------------|
| Product Name | ASUS All-in-One PC/Zen AiO   |
| Model No.    | Z272S,Z272SDK,Z272SDT,Z272SD |
| FCC ID.      | MSQ-Z272S                    |

|           |                                                |
|-----------|------------------------------------------------|
| Applicant | ASUSTeK COMPUTER INC.                          |
| Address   | 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan |

|                 |                     |
|-----------------|---------------------|
| Date of Receipt | Apr. 11, 2018       |
| Issued Date     | Aug. 02, 2018       |
| Report No.      | 1860370R-RFUSP20V00 |
| Report Version  | V1.0                |



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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# Test Report

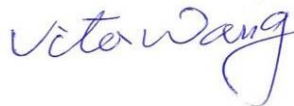
Issued Date: Aug. 02, 2018

Report No.: 1860370R-RFUSP20V00



|                     |                                                                                 |
|---------------------|---------------------------------------------------------------------------------|
| Product Name        | ASUS All-in-One PC/Zen AiO                                                      |
| Applicant           | ASUSTeK COMPUTER INC.                                                           |
| Address             | 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan                                  |
| Manufacturer        | ASUSTeK COMPUTER INC.                                                           |
| Model No.           | Z272S,Z272SDK,Z272SDT,Z272SD                                                    |
| FCC ID.             | MSQ-Z272S                                                                       |
| EUT Rated Voltage   | AC 100-240V, 50-60Hz                                                            |
| EUT Test Voltage    | AC 120V/60Hz                                                                    |
| Trade Name          | ASUS                                                                            |
| Applicable Standard | FCC CFR Title 47 Part 15 Subpart C: 2017<br>ANSI C63.4: 2014, ANSI C63.10: 2013 |
| Test Result         | Complied                                                                        |

Documented By :



( Adm. Assistant / Vita Wang )

Tested By :



( Engineer / Anson lu )

Approved By :



( Director / Vincent Lin )

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## 1. GENERAL INFORMATION

### 1.1. EUT Description

|                    |                                                                                                                               |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Product Name       | ASUS All-in-One PC/Zen AiO                                                                                                    |
| Trade Name         | ASUS                                                                                                                          |
| Model No.          | Z272S,Z272SDK,Z272SDT,Z272SD                                                                                                  |
| FCC ID.            | MSQ-Z272S                                                                                                                     |
| Frequency Range    | 110-145kHz                                                                                                                    |
| Type of Modulation | ASK Modulation                                                                                                                |
| Type of antenna    | Coil Antenna                                                                                                                  |
| Power Adapter      | MFR: ASUS, M/N: ADP-180MB-F<br>Input: AC 100-240V~ 50-60Hz 2.34A<br>Output: DC 19.5V, 9.23A<br>Cable Out: Non-shielded, 1.50m |

Frequency of Channel:

|            |           |
|------------|-----------|
| Channel    | Frequency |
| Channel 1: | 142KHz    |

Note:

1. The EUT is an ASUS All-in-One PC/Zen AiO with a built-in 110-145kHz transceiver.
2. The EUT is including four models for different marketing requirement.
3. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.209
4. Only the higher Fundamental Radiated Emission channel was tested and recorded in this report.

|           |                  |
|-----------|------------------|
| Test Mode | Mode 1: Transmit |
|-----------|------------------|

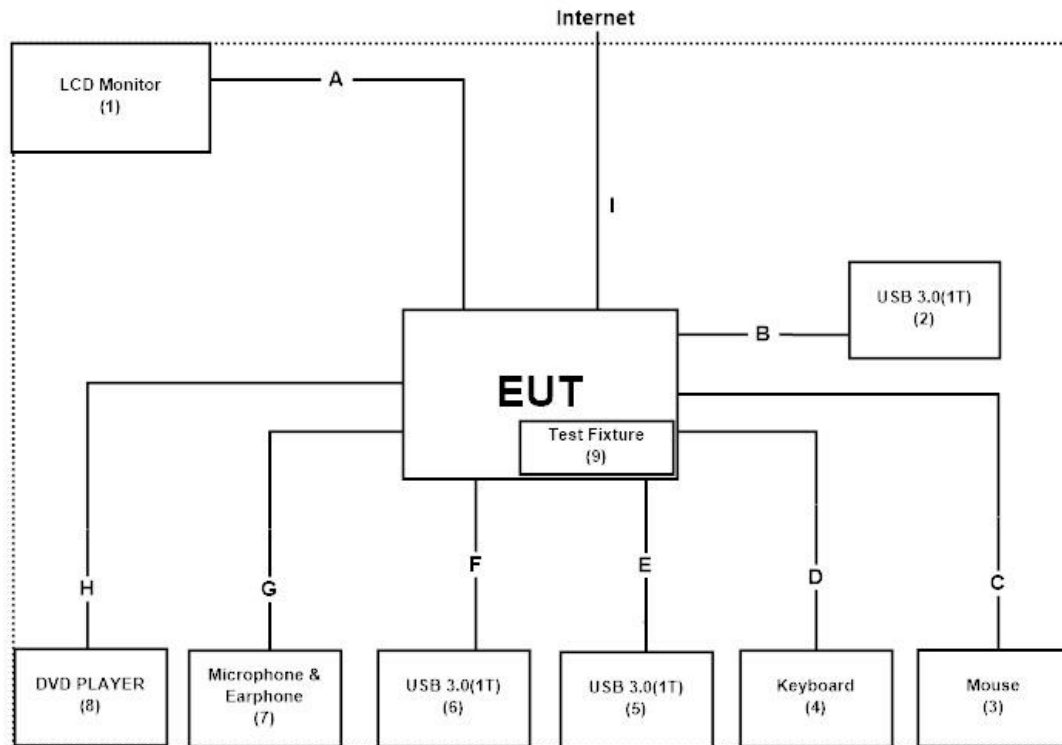
### 1.3. Test System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Product                 | Manufacturer | Model No.  | Serial No.               | Power Cord          |
|-------------------------|--------------|------------|--------------------------|---------------------|
| 1 LCD Monitor           | ASUS         | VS229HA    | F4LMQS135395             | Non-Shielded, 1.8m  |
| 2 USB 3.0(1T)           | Transcend    | TS1TSJ25M3 | C13890-3746              | Non-Shielded, 0.4m  |
| 3 Mouse                 | COMPAQ       | M-S69      | 44J5                     | Non-Shielded, 1.8m  |
| 4 Keyboard              | DELL         | SK-8115    | MY-0DJ325-71619-79D-0178 | Non-Shielded, 1.8m  |
| 5 USB 3.0(1T)           | Transcend    | TS1TSJ25M3 | C13890-3746              | Non-Shielded, 0.4m  |
| 6 USB 3.0(1T)           | Transcend    | TS1TSJ25M3 | C13890-3746              | Non-Shielded, 0.4m  |
| 7 Microphone & Earphone | Ergotech     | ET-E201    | N/A                      | Non-Shielded, 1.65m |
| 8 DVD PLAYER            | Pioneer      | DV-600AV   | GJKD006378LS             | Non-Shielded, 1.8m  |
| 9 Test Fixture          | N/A          | N/A        | N/A                      | N/A                 |

| Signal Cable Type | Signal cable Description |
|-------------------|--------------------------|
| A HDMI Cable      | Non-shielded, 1.80m      |
| B USB Cable       | Non-shielded, 0.40m      |
| C USB Cable       | Non-shielded, 1.80m      |
| D USB Cable       | Non-shielded, 0.40m      |
| E USB Cable       | Non-shielded, 0.40m      |
| F USB Cable       | Non-shielded, 0.40m      |
| G Signal Cable    | Non-shielded, 1.65m      |
| H HDMI Cable      | Non-shielded, 1.80m      |
| I Network Cable   | Non-shielded, 1.65m      |

## 1.4. Configuration of Test System



## 1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4
- (2) Turn on the power of all equipment.
- (3) Start the continuous transmitter.
- (4) Verify that the EUT works properly.

## 1.6. Test Facility

Ambient conditions in the laboratory:

| Items                      | Required (IEC 68-1) | Actual   |
|----------------------------|---------------------|----------|
| Temperature (°C)           | 15-35               | 20-35    |
| Humidity (%RH)             | 25-75               | 50-65    |
| Barometric pressure (mbar) | 860-1060            | 950-1000 |

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site:

<http://www.dekra.com.tw/english/about/certificates.aspx?bval=5>

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: [http://www.dekra.com.tw/index\\_en](http://www.dekra.com.tw/index_en)

Site Description:   Accredited by TAF  
                          Accredited Number: 3023

Site Name:           DEKRA Testing and Certification Co., Ltd.  
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                          Taiwan, R.O.C..  
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FCC Accreditation Number: TW3023

## 1.7. List of Test Equipment

### For Conducted measurements /CB3/SR8

|   | Equipment             | Manufacturer | Model No. | Serial No.   | Cali. Date | Due. Date  |
|---|-----------------------|--------------|-----------|--------------|------------|------------|
|   | Temperature Chamber   | WIT GROUP    | TH-1S-B   | EQ-201-00146 | 2018/02/12 | 2019/02/11 |
| X | Spectrum Analyzer     | Agilent      | N9010A    | MY48030495   | 2017/10/13 | 2018/10/12 |
|   | Peak Power Analyzer   | Keysight     | 8990B     | MY51000410   | 2018/08/01 | 2019/07/31 |
|   | Wideband Power Sensor | Keysight     | N1923A    | MY56080003   | 2018/07/25 | 2019/07/24 |
|   | Wideband Power Sensor | Keysight     | N1923A    | MY56080004   | 2018/07/25 | 2019/07/24 |
| X | EMI Test Receiver     | R&S          | ESCS 30   | 100369       | 2017/11/07 | 2018/11/06 |
| X | LISN                  | R&S          | ESH3-Z5   | 836679/017   | 2018/02/09 | 2019/02/08 |
| X | LISN                  | R&S          | ENV216    | 100097       | 2018/02/09 | 2019/02/08 |
| X | Coaxial Cable         | DEKRA        | RG 400    | LC018-RG     | 2018/06/21 | 2019/06/20 |

### For Radiated measurements /Site3/CB8

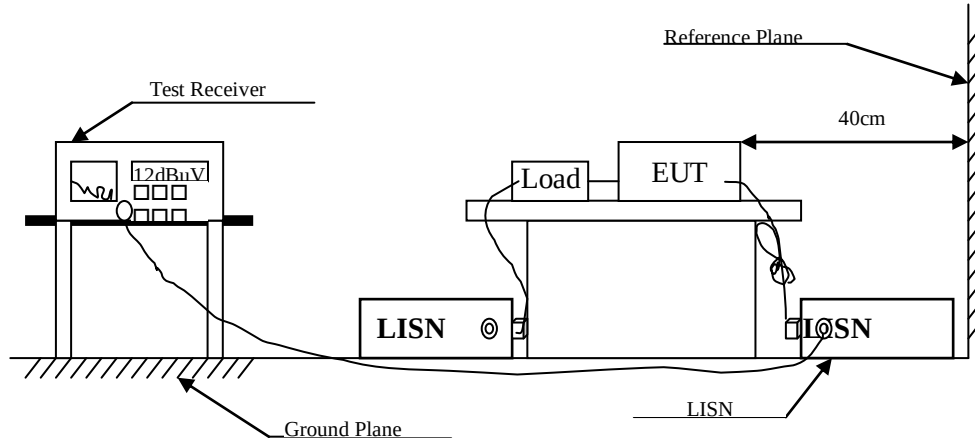
|   | Equipment         | Manufacturer       | Model No.   | Serial No.      | Cali. Date | Due. Date  |
|---|-------------------|--------------------|-------------|-----------------|------------|------------|
| X | Spectrum Analyzer | R&S                | FSP40       | 100170          | 2018/03/12 | 2019/03/11 |
| X | Loop Antenna      | Teseq              | HLA6121     | 37133           | 2017/10/13 | 2018/10/12 |
| X | Bilog Antenna     | Schaffner Chase    | CBL6112B    | 2707            | 2018/06/24 | 2019/06/23 |
| X | Coaxial Cable     | DEKRA              | RG 214      | LC003-RG        | 2018/06/14 | 2019/06/13 |
| X | Pre-Amplifier     | Jet-Power          | JPA-10M1G33 | 170101000330010 | 2018/06/14 | 2019/06/13 |
|   | Horn Antenna      | ETS-Lindgren       | 3117        | 00135205        | 2018/05/03 | 2019/05/02 |
|   | Horn Antenna      | SCHWARZBECK        | 9120D       | 576             | 2017/12/07 | 2018/12/06 |
|   | Pre-Amplifier     | EMCI               | EMC012630SE | 980210          | 2018/04/10 | 2019/04/09 |
|   | Horn Antenna      | Com-Power          | AH-840      | 101043          | 2018/01/09 | 2019/01/08 |
|   | Amplifier + Cable | EMCI               | EMC184045SE | 980370          | 2018/03/21 | 2019/03/20 |
|   | Filter            | MicroTRON          | BRM50701    | 019             | 2017/11/21 | 2018/11/20 |
|   | Filter            | Microwave Circuits | N0257881    | 36681           | 2018/01/22 | 2019/01/21 |

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with "X" are used to measure the final test results.
3. Test Software version :QuiTek EMI 2.0 V2.1.113.

## 2. Conducted Emission

### 2.1. Test Setup



### 2.2. Limits

| FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit |                      |                      |
|-----------------------------------------------------|----------------------|----------------------|
| Frequency<br>MHz                                    | Limits               |                      |
|                                                     | QP                   | AV                   |
| 0.15 - 0.50                                         | 66-56 <sup>(註)</sup> | 56-46 <sup>(註)</sup> |
| 0.50-5.0                                            | 56                   | 46                   |
| 5.0 - 30                                            | 60                   | 50                   |

### 2.3. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

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

### 2.4. Uncertainty

± 2.26 dB

## 2.5. Test Result of Conducted Emission

Product : ASUS All-in-One PC/Zen AiO  
 Test Item : Conducted Emission Test  
 Power Line : Line 1  
 Test Mode : Mode 1: Transmit  
 Test Date : 2018/04/13

| Frequency         | Correct | Reading | Measurement | Margin  | Limit  |
|-------------------|---------|---------|-------------|---------|--------|
| MHz               | Factor  | Level   | Level       |         |        |
|                   | dB      | dBuV    | dBuV        | dB      | dBuV   |
| <b>LINE 1</b>     |         |         |             |         |        |
| <b>Quasi-Peak</b> |         |         |             |         |        |
| 0.220             | 9.673   | 34.380  | 44.053      | -19.947 | 64.000 |
| 0.341             | 9.681   | 36.400  | 46.081      | -14.462 | 60.543 |
| 0.400             | 9.685   | 32.900  | 42.585      | -16.272 | 58.857 |
| 0.576             | 9.696   | 32.640  | 42.336      | -13.664 | 56.000 |
| 0.775             | 9.719   | 29.100  | 38.819      | -17.181 | 56.000 |
| 3.517             | 9.860   | 29.970  | 39.829      | -16.171 | 56.000 |
| <b>Average</b>    |         |         |             |         |        |
| 0.220             | 9.673   | 26.280  | 35.953      | -18.047 | 54.000 |
| 0.341             | 9.681   | 26.020  | 35.701      | -14.842 | 50.543 |
| 0.400             | 9.685   | 17.090  | 26.775      | -22.082 | 48.857 |
| 0.576             | 9.696   | 21.110  | 30.806      | -15.194 | 46.000 |
| 0.775             | 9.719   | 18.650  | 28.369      | -17.631 | 46.000 |
| 3.517             | 9.860   | 14.230  | 24.089      | -21.911 | 46.000 |

### Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : ASUS All-in-One PC/Zen AiO  
 Test Item : Conducted Emission Test  
 Power Line : Line 2  
 Test Mode : Mode 1: Transmit  
 Test Date : 2018/04/13

| Frequency         | Correct | Reading | Measurement | Margin  | Limit  |
|-------------------|---------|---------|-------------|---------|--------|
| MHz               | Factor  | Level   | Level       |         |        |
|                   | dB      | dBuV    | dBuV        | dB      | dBuV   |
| <b>LINE 2</b>     |         |         |             |         |        |
| <b>Quasi-Peak</b> |         |         |             |         |        |
| 0.205             | 9.672   | 27.690  | 37.362      | -27.067 | 64.429 |
| 0.232             | 9.674   | 31.000  | 40.674      | -22.983 | 63.657 |
| 0.341             | 9.671   | 31.430  | 41.101      | -19.442 | 60.543 |
| 0.892             | 9.716   | 28.250  | 37.966      | -18.034 | 56.000 |
| 1.697             | 9.777   | 29.000  | 38.777      | -17.223 | 56.000 |
| 3.502             | 9.849   | 29.440  | 39.289      | -16.711 | 56.000 |
| <b>Average</b>    |         |         |             |         |        |
| 0.205             | 9.672   | 13.820  | 23.492      | -30.937 | 54.429 |
| 0.232             | 9.674   | 20.440  | 30.114      | -23.543 | 53.657 |
| 0.341             | 9.671   | 21.350  | 31.021      | -19.522 | 50.543 |
| 0.892             | 9.716   | 20.050  | 29.766      | -16.234 | 46.000 |
| 1.697             | 9.777   | 15.690  | 25.467      | -20.533 | 46.000 |
| 3.502             | 9.849   | 12.340  | 22.189      | -23.811 | 46.000 |

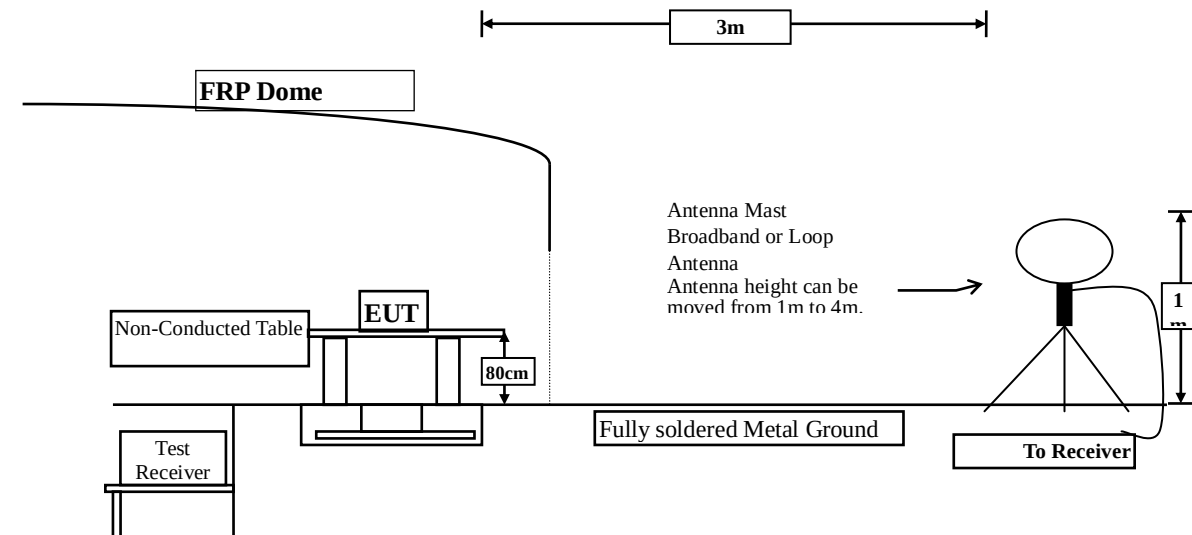
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

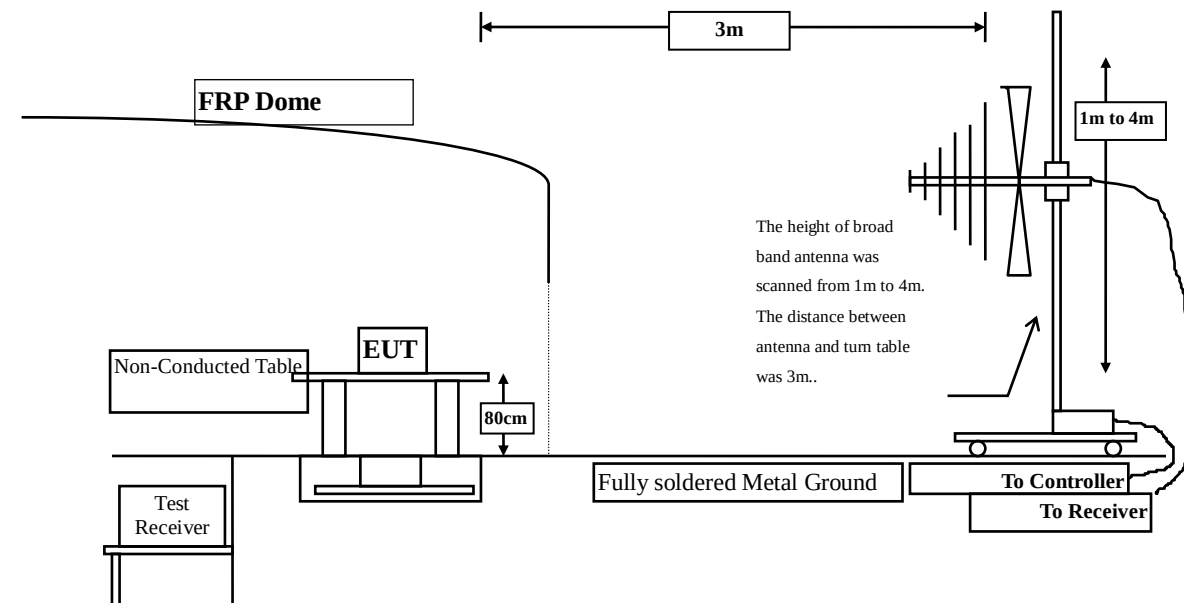
### 3. Radiated Emission

#### 3.1. Test Setup

Under 30MHz Test Setup



Radiated Emission Below 1GHz



### 3.2. Limits

| FCC Part 15 Subpart B Paragraph 15.209 Limits |                                   |                               |
|-----------------------------------------------|-----------------------------------|-------------------------------|
| Frequency (MHz)                               | Field Strength (microvolts/meter) | Measurement Distance (meters) |
| 0.009 - 0.490                                 | 2,400/F(kHz)                      | 300                           |
| 0.490– 1.705                                  | 24,000/F(kHz)                     | 30                            |
| 1.705 – 30                                    | 30                                | 30                            |
| 30 – 88                                       | 100                               | 3                             |
| 88 - 216                                      | 150                               | 3                             |
| 216 - 960                                     | 200                               | 3                             |
| Above 960                                     | 500                               | 3                             |

Remarks : 1. RF Voltage (dBuV) =  $20 \log \text{RF Voltage (uV)}$   
2. In the Above Table, the tighter limit applies at the band edges.  
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

### 3.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested compliance to FCC 47CFR 15.209 requirements.

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move 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 measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz. Radiated emission measurements below 1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured on the Final Measurement.

The measurement frequency range from 9kHz - 10th Harmonic of fundamental was investigated.

### 3.4. Uncertainty

± 4.08 dB above 1GHz

± 4.22 dB below 1GHz

### 3.5. Test Result of Radiated Emission

Product : ASUS All-in-One PC/Zen AiO  
 Test Item : Fundamental Radiated Emission  
 Test Site : No.3 OATS  
 Test date : 2018/04/11  
 Test Mode : Mode 1: Transmit

| Frequency         | Correct | Reading | Measurement | Margin  | Limit   |
|-------------------|---------|---------|-------------|---------|---------|
| MHz               | Factor  | Level   | Level       |         |         |
|                   | dB      | dBuV    | dBuV/m      | dB      | dBuV/m  |
| <b>Horizontal</b> |         |         |             |         |         |
| 0.142             | 19.726  | 56.900  | 76.626      | -27.932 | 104.558 |
| <b>Vertical</b>   |         |         |             |         |         |
| 0.142             | 19.726  | 43.100  | 62.826      | -41.732 | 104.558 |

Note:

1. Limit=24.558 dBuV/300m + 40\*Log (300(m)/3(m))= 104.558dBuV/3m (Quasi-Peak).
2. All Readings below 1GHz are Quasi-Peak, above are average value.
3. Measurement Level = Reading Level + Correct Factor.

Product : ASUS All-in-One PC/Zen AiO  
 Test Item : Fundamental Radiated Emission  
 Test Site : No.3 OATS  
 Test date : 2018/07/28  
 Test Mode : Mode 1: Transmit (9k-30M)

**9kHz~30MHz**

| Frequency         | Correct | Reading | Measurement | Margin  | Limit   |
|-------------------|---------|---------|-------------|---------|---------|
|                   | Factor  | Level   | Level       |         |         |
| MHz               | dB      | dBuV    | dBuV/m      | dB      | dBuV/m  |
| <b>Quasi-Peak</b> |         |         |             |         |         |
| <b>Horizontal</b> |         |         |             |         |         |
| 0.284             | 19.690  | 34.500  | 54.190      | -54.480 | 108.670 |
| 0.426             | 19.680  | 32.200  | 51.880      | -46.540 | 98.420  |
| 0.568             | 19.680  | 25.400  | 45.080      | -28.025 | 73.105  |
| 0.710             | 19.680  | 21.200  | 40.880      | -30.959 | 71.839  |
| 0.852             | 19.680  | 19.500  | 39.180      | -31.393 | 70.573  |
| 0.994             | 19.670  | 20.900  | 40.570      | -28.738 | 69.308  |
| 1.136             | 19.680  | 15.200  | 34.880      | -33.162 | 68.042  |
| 1.278             | 19.680  | 11.200  | 30.880      | -35.896 | 66.776  |
| 1.420             | 19.690  | 7.700   | 27.390      | -38.120 | 65.510  |
| <b>Vertical</b>   |         |         |             |         |         |
| 0.284             | 19.690  | 21.100  | 40.790      | -67.880 | 108.670 |
| 0.426             | 19.680  | 21.100  | 40.780      | -57.640 | 98.420  |
| 0.568             | 19.680  | 16.200  | 35.880      | -37.225 | 73.105  |
| 0.710             | 19.680  | 14.700  | 34.380      | -37.459 | 71.839  |
| 0.852             | 19.680  | 9.100   | 28.780      | -41.793 | 70.573  |
| 0.994             | 19.670  | 13.800  | 33.470      | -35.838 | 69.308  |
| 1.136             | 19.680  | 8.600   | 28.280      | -39.762 | 68.042  |
| 1.278             | 19.680  | 8.500   | 28.180      | -38.596 | 66.776  |
| 1.420             | 19.690  | 6.700   | 26.390      | -39.120 | 65.510  |

Note:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement Level = Reading Level + Correct Factor.
3. "■" means the worst emission level.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : ASUS All-in-One PC/Zen AiO  
 Test Item : Fundamental Radiated Emission  
 Test Site : No.3 OATS  
 Test date : 2018/04/11  
 Test Mode : Mode 1: Transmit (30M-1G)

**9kHz~30MHz**

| Frequency         | Correct | Reading | Measurement | Margin  | Limit  |
|-------------------|---------|---------|-------------|---------|--------|
| MHz               | Factor  | Level   | Level       |         |        |
|                   | dB      | dBuV    | dBuV/m      | dB      | dBuV/m |
| <b>Quasi-Peak</b> |         |         |             |         |        |
| <b>Horizontal</b> |         |         |             |         |        |
| 97.900            | 16.812  | 16.017  | 32.829      | -10.671 | 43.500 |
| 227.880           | 13.351  | 21.520  | 34.871      | -11.129 | 46.000 |
| 454.860           | 22.021  | 15.640  | 37.661      | -8.339  | 46.000 |
| 530.520           | 23.734  | 17.664  | 41.398      | -4.602  | 46.000 |
| 741.980           | 26.199  | 11.201  | 37.400      | -8.600  | 46.000 |
| 910.760           | 26.920  | 11.634  | 38.554      | -7.446  | 46.000 |
| <b>Vertical</b>   |         |         |             |         |        |
| 95.960            | 16.554  | 19.883  | 36.437      | -7.063  | 43.500 |
| 227.880           | 20.321  | 16.513  | 36.834      | -9.166  | 46.000 |
| 350.100           | 17.364  | 23.046  | 40.410      | -5.590  | 46.000 |
| 530.520           | 21.844  | 20.265  | 42.109      | -3.891  | 46.000 |
| 741.980           | 24.429  | 15.897  | 40.326      | -5.674  | 46.000 |
| 910.760           | 28.020  | 9.906   | 37.926      | -8.074  | 46.000 |

**Note:**

- All Readings below 1GHz are Quasi-Peak.
- Measurement Level = Reading Level + Correct Factor.
- “ ” means the worst emission level.
- The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

#### **4. EMI Reduction Method During Compliance Testing**

No modification was made during testing.