

Test Report No:  
24A0408R-RFUSV03S-A

## TEST REPORT

### FCC Rules & Regulations

|                                 |                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------|
| Product Name                    | Digital Camera                                                                      |
| Brand Name                      | FUJIFILM                                                                            |
| Model No.                       | FF240003                                                                            |
| FCC ID                          | W2Z-02100008                                                                        |
| Applicant's Name / Address      | Fuji Film Corporation<br>7-3, AKASAKA 9-CHOME, MINATO-KU, Tokyo 107-0052, Japan     |
| Manufacturer's Name             | FUJIFILM Corporation                                                                |
| Test Method Requested, Standard | FCC CFR Title 47 Part 15 Subpart E Section 15.407<br>ANSI C63.10-2013               |
| Verdict Summary                 | IN COMPLIANCE                                                                       |
| Documented by Jinn Chen         |  |
| Tested by Ivan Chuang           |  |
| Approved by Alan Chen           |  |
| Date of Receipt                 | 2024/10/15                                                                          |
| Date of Issue                   | 2025/01/24                                                                          |
| Report Version                  | V1.0                                                                                |

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## Competences and Guarantees

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DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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## General Conditions

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1. The test results relate only to the samples tested.
2. 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.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

| Version | Description             | Issued Date |
|---------|-------------------------|-------------|
| V1.0    | Initial issue of report | 2025/01/24  |

## Summary of Test Result

| Report Clause | Test Items                             | Result (PASS/FAIL) | Remark |
|---------------|----------------------------------------|--------------------|--------|
| 3             | AC Power Line Conducted Emission       | PASS               | -      |
| 4             | Emission Bandwidth                     | PASS               | -      |
| 5             | Maximum Conducted Output Power         | PASS               | -      |
| 6             | Maximum Power Spectral Density         | PASS               | -      |
| 7             | Transmitter Radiated Spurious Emission | PASS               | -      |

### Comments and Explanations

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

## 1. General Information

### 1.1. EUT Description

|                                      |                            |                                       |
|--------------------------------------|----------------------------|---------------------------------------|
| Frequency Range                      | 5150 ~ 5250 MHz            |                                       |
| Operating Frequency / Channel Number | IEEE 802.11a/n/ac (20 MHz) | 5180 ~ 5240 MHz / 4 Channels          |
|                                      | IEEE 802.11n/ac (40 MHz)   | 5190 ~ 5230 MHz / 2 Channels          |
|                                      | IEEE 802.11ac (80 MHz)     | 5210 MHz / 1 Channel                  |
| Type of Modulation                   | IEEE 802.11a/n             | OFDM-BPSK, QPSK, 16QAM, 64QAM         |
|                                      | IEEE 802.11ac              | OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM |

| Accessories Information |                               |                               |           |         |
|-------------------------|-------------------------------|-------------------------------|-----------|---------|
| No.                     | Equipment Name                | Brand Name                    | Model No. | Remark  |
| 1                       | NP-W126S rechargeable battery | FUJIFILM                      | NP-W126S  | DC 7.2V |
| No.                     | Equipment Name                | Remark                        |           |         |
| 2                       | Headphone adapter             | Type C Plug to 3.5 Audio JACK |           |         |

| Antenna Information |            |          |      |            |
|---------------------|------------|----------|------|------------|
| Item.               | Brand Name | Part No. | Type | Gain (dBi) |
| 1                   | Ability    | KC36D10  | PCB  | 4.06       |

Note: The antenna of EUT conforms to FCC 15.203.

#### For 802.11a/n/ac Mode: (1TX, 1RX)

Only Ant. 0 can be used as transmitting/receiving antenna.

## 1.2. EUT Information

|                      |                                                   |                               |                                     |                      |
|----------------------|---------------------------------------------------|-------------------------------|-------------------------------------|----------------------|
| EUT Power Type       | DC 7.2V (Power by Battery) / DC 5V (Power by USB) |                               |                                     |                      |
| EUT Function         | <input checked="" type="checkbox"/>               | IP Based (Load Based)         | <input type="checkbox"/>            | Frame Based          |
|                      | <input checked="" type="checkbox"/>               | Point-to-multipoint           | <input type="checkbox"/>            | Point-to-point       |
| TPC Function         | <input type="checkbox"/>                          | With TPC Function             | <input checked="" type="checkbox"/> | Without TPC Function |
| Beamforming Function | <input type="checkbox"/>                          | With beamforming              | <input checked="" type="checkbox"/> | Without beamforming  |
| Operating Mode       | <input checked="" type="checkbox"/>               | Master                        |                                     |                      |
|                      | <input type="checkbox"/>                          | Slave with radar detection    |                                     |                      |
|                      | <input checked="" type="checkbox"/>               | Slave without radar detection |                                     |                      |

## 1.3. Testing Location Information

|        |                                                       |
|--------|-------------------------------------------------------|
| USA    | FCC Designation Number: TW0033                        |
| Canada | CAB Identifier Number: TW3023 / Company Number: 26930 |

|                  |                         |
|------------------|-------------------------|
| Site Description | Accredited by TAF       |
|                  | Accredited Number: 3023 |

|                    |                                                                             |
|--------------------|-----------------------------------------------------------------------------|
| Test Laboratory    | DEKRA Testing and Certification Co., Ltd.                                   |
|                    | Linkou Laboratory                                                           |
| Address            | No.5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan, R.O.C. |
| Performed Location | No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan, R.O.C.   |
| Phone Number       | +886-3-275-7255                                                             |
| Fax Number         | +886-3-327-8031                                                             |

Ambient conditions in the laboratory:

| Performed Item                   | Items            | Required | Actual  | Test Date             |
|----------------------------------|------------------|----------|---------|-----------------------|
| AC Power Line Conducted Emission | Temperature (°C) | 10~40 °C | 24.9 °C | 2024/10/24            |
|                                  | Humidity (%RH)   | 10~90 %  | 65.1 %  |                       |
| Radiated Emission                | Temperature (°C) | 10~40 °C | 24.1 °C | 2024/10/21~2024/10/23 |
|                                  | Humidity (%RH)   | 10~90 %  | 62.8 %  |                       |
| Conducted Emission               | Temperature (°C) | 10~40 °C | 24.4 °C | 2024/10/22            |
|                                  | Humidity (%RH)   | 10~90 %  | 63.8 %  |                       |

#### 1.4. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document.

The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

| Test item                              | Uncertainty                                                                                                               |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| AC Power Line Conducted Emission       | $\pm 3.50$ dB                                                                                                             |
| Emission Bandwidth                     | $\pm 1580.61$ Hz                                                                                                          |
| Maximum Conducted Output Power         | Spectrum Analyzer: $\pm 2.13$ dB<br>Power Meter: $\pm 1.07$ dB                                                            |
| Maximum Power Spectral Density         | $\pm 2.13$ dB                                                                                                             |
| Transmitter Radiated Spurious Emission | 9 kHz~30 MHz: $\pm 3.30$ dB<br>30 MHz~1 GHz: $\pm 4.79$ dB<br>1 GHz~18 GHz: $\pm 4.17$ dB<br>18 GHz~40 GHz: $\pm 3.32$ dB |
| Duty Cycle                             | $\pm 0.51$ %                                                                                                              |

## 1.5. List of Test Equipment

### For Conduction Measurements / HY-SR01

|   | Equipment          | Manufacturer | Model No. | Serial No. | Cal. Date  | Due Date   |
|---|--------------------|--------------|-----------|------------|------------|------------|
| V | EMI Test Receiver  | R&S          | ESR7      | 101601     | 2024/06/24 | 2025/06/23 |
| V | Two-Line V-Network | R&S          | ENV216    | 101306     | 2024/04/01 | 2026/03/31 |
| V | Two-Line V-Network | R&S          | ENV216    | 101307     | 2023/08/17 | 2025/08/16 |
| V | Coaxial Cable      | SUHNER       | RG400_BNC | RF001      | 2024/01/10 | 2025/01/09 |

Note:

1. Two-Line V-Network is calibrated every two years, the other equipments are calibrated every one year.
2. The test instruments marked with "V" are used to measure the final test results.
3. Test Software Version: e3 230303 dekra V9.

### For Conducted Measurements / HY-SR02

|   | Equipment             | Manufacturer | Model No. | Serial No. | Cal. Date  | Due Date   |
|---|-----------------------|--------------|-----------|------------|------------|------------|
| V | Spectrum Analyzer     | R&S          | FSV30     | 103466     | 2024/01/05 | 2025/01/04 |
| V | Spectrum Analyzer     | KEYSIGHT     | N9010A    | MY53470892 | 2023/11/09 | 2024/11/08 |
| V | Peak Power Analyzer   | KEYSIGHT     | 8990B     | MY51000539 | 2024/05/07 | 2025/05/06 |
| V | Wideband Power Sensor | KEYSIGHT     | N1923A    | MY59240002 | 2024/05/08 | 2025/05/07 |
| V | Wideband Power Sensor | KEYSIGHT     | N1923A    | MY59240003 | 2024/05/08 | 2025/05/07 |

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with "V" are used to measure the final test results.
3. Test Software Version: RF Conducted Test Tools R3 V3.0.1.14.

### For Radiated Measurements /HY-CB02

|   | Equipment         | Manufacturer  | Model No.         | Serial No.   | Cal. Date  | Due. Date  |
|---|-------------------|---------------|-------------------|--------------|------------|------------|
| V | Loop Antenna      | TESEQ         | HLA6121           | 49611        | 2024/02/23 | 2025/02/22 |
| V | Bi-Log Antenna    | SCHWARZBECK   | VULB9168          | 9168-0675    | 2023/08/09 | 2025/08/08 |
| V | Horn Antenna      | RF SPIN       | DRH18-E           | 210503A18ES  | 2024/02/29 | 2025/02/28 |
| V | Horn Antenna      | Com-Power     | AH-840            | 101101       | 2023/12/04 | 2025/12/03 |
| V | Pre-Amplifier     | SGH           | SGH0301-9         | 20211007-8   | 2024/01/10 | 2025/01/09 |
| V | Pre-Amplifier     | SGH           | SGH118-HS         | 20211102-1   | 2024/01/10 | 2025/01/09 |
| V | Pre-Amplifier     | EMCI          | EMC05820SE        | 980285       | 2024/01/10 | 2025/01/09 |
|   | Pre-Amplifier     | MICZEN        | MZLNA1850GAC40    | WB0103001    | 2024/01/10 | 2025/01/09 |
| V | Pre-Amplifier     | EMCI          | EMC184045SE       | 980369       | 2024/01/10 | 2025/01/09 |
| V | Coaxial Cable     | EMCI          | EMC102-KM-KM-600  | 1160314      | 2024/01/10 | 2025/01/09 |
| V | Coaxial Cable     | EMCI          | EMC102-KM-KM-7000 | 170242       | 2024/01/10 | 2025/01/09 |
|   | Filter            | MICRO TRONICS | BRM50702          | G249         | 2024/01/05 | 2025/01/04 |
| V | Filter            | MICRO TRONICS | BRM50716          | G067         | 2024/01/05 | 2025/01/04 |
| V | EMI Test Receiver | R&S           | ESR3              | 102793       | 2023/12/11 | 2024/12/10 |
| V | Spectrum Analyzer | R&S           | FSV3044           | 101113       | 2024/02/05 | 2025/02/04 |
| V | Coaxial Cable     | SGH           | HA800             | GD20110223-2 | 2024/01/10 | 2025/01/09 |
| V | Coaxial Cable     | SGH           | HA800             | GD20110222-4 | 2024/01/10 | 2025/01/09 |
| V | Coaxial Cable     | SGH           | SGH18             | 202108-5     | 2024/01/10 | 2025/01/09 |
| V | Coaxial Cable     | SGH           | SGH18             | 202212-2     | 2023/11/17 | 2024/11/26 |

Note:

1. Bi-Log Antenna and Horn Antenna(AH-840) is calibrated every two years, the other equipments are calibrated every one year.
2. The test instruments marked with "V" are used to measure the final test results.
3. Test Software Version: e3 230303 dekra V9.

## 2. Test Configuration of EUT

### 2.1. Test Condition

| EUT Operational Condition |                      |
|---------------------------|----------------------|
| Testing Voltage           | DC 5V (Power by USB) |

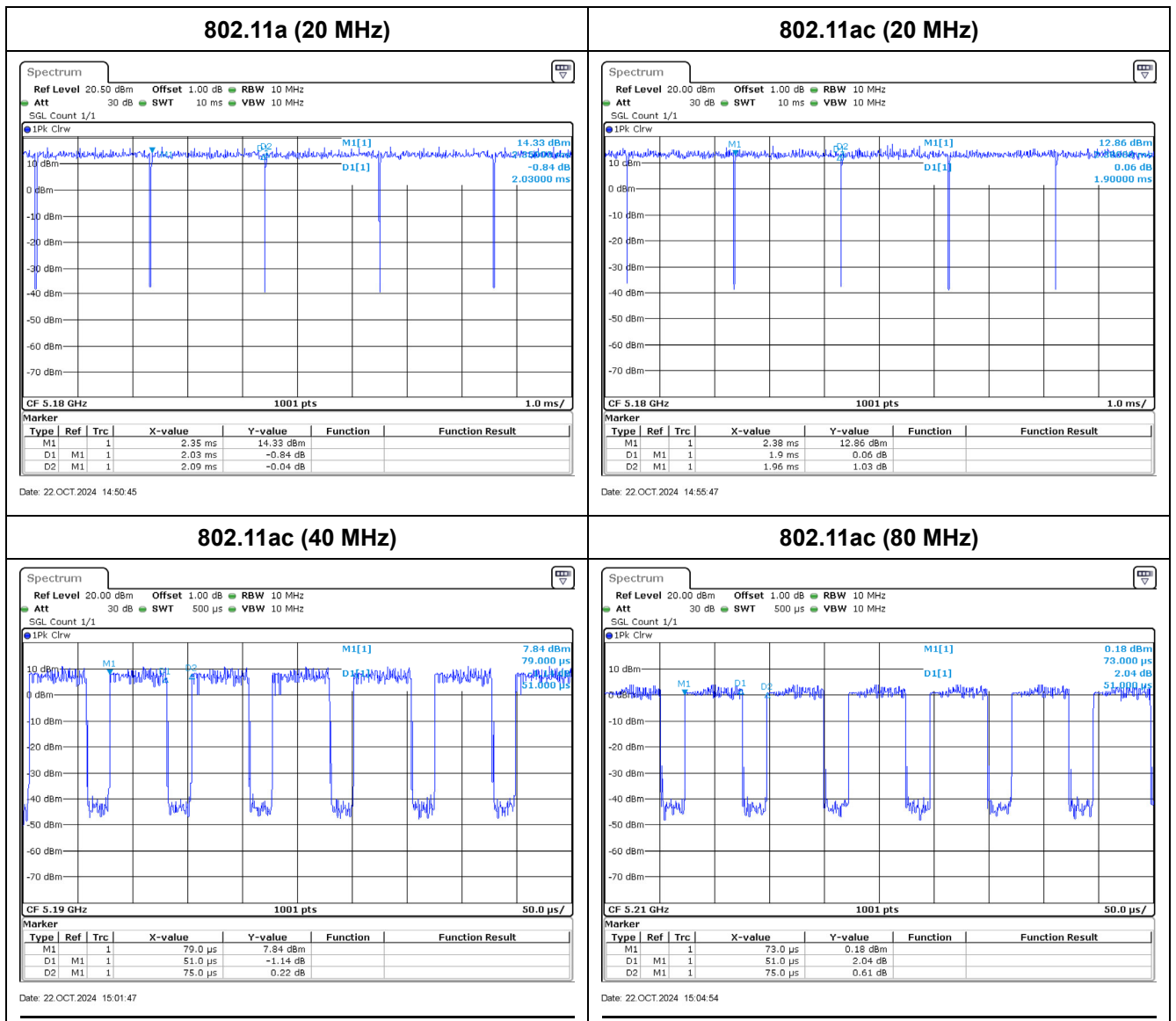
### 2.2. Test Frequency Mode

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Test Software Version | KC36D10 Vendor Command Tool Version c01.12.20240815.OD New 32bit |
|-----------------------|------------------------------------------------------------------|

| Modulation        | Frequency (MHz) | Power Setting |
|-------------------|-----------------|---------------|
| 802.11a (20 MHz)  | 5180            | N/A           |
|                   | 5220            | N/A           |
|                   | 5240            | N/A           |
| 802.11ac (20 MHz) | 5180            | N/A           |
|                   | 5220            | N/A           |
|                   | 5240            | N/A           |
| 802.11ac (40 MHz) | 5190            | N/A           |
|                   | 5230            | N/A           |
| 802.11ac (80 MHz) | 5210            | N/A           |

### 2.3. Duty Cycle

| Modulation        | On Time (ms) | On+Off Time (ms) | Duty Cycle (%) | Duty Factor (dB) | 1/T Minimum VBW (Hz) |
|-------------------|--------------|------------------|----------------|------------------|----------------------|
| 802.11a (20 MHz)  | 2.0300       | 2.0900           | 97.13          | 0.13             | 500                  |
| 802.11ac (20 MHz) | 1.9000       | 1.9600           | 96.94          | 0.14             | 1000                 |
| 802.11ac (40 MHz) | 0.0510       | 0.0750           | 68.00          | 1.67             | 20000                |
| 802.11ac (80 MHz) | 0.0510       | 0.0750           | 68.00          | 1.67             | 20000                |



## 2.4. Measurement Configuration

|           |                   |                   |
|-----------|-------------------|-------------------|
| Test Mode | Mode 1 (Transmit) | 802.11a (20 MHz)  |
|           |                   | 802.11ac (20 MHz) |
|           |                   | 802.11ac (40 MHz) |
|           |                   | 802.11ac (80 MHz) |

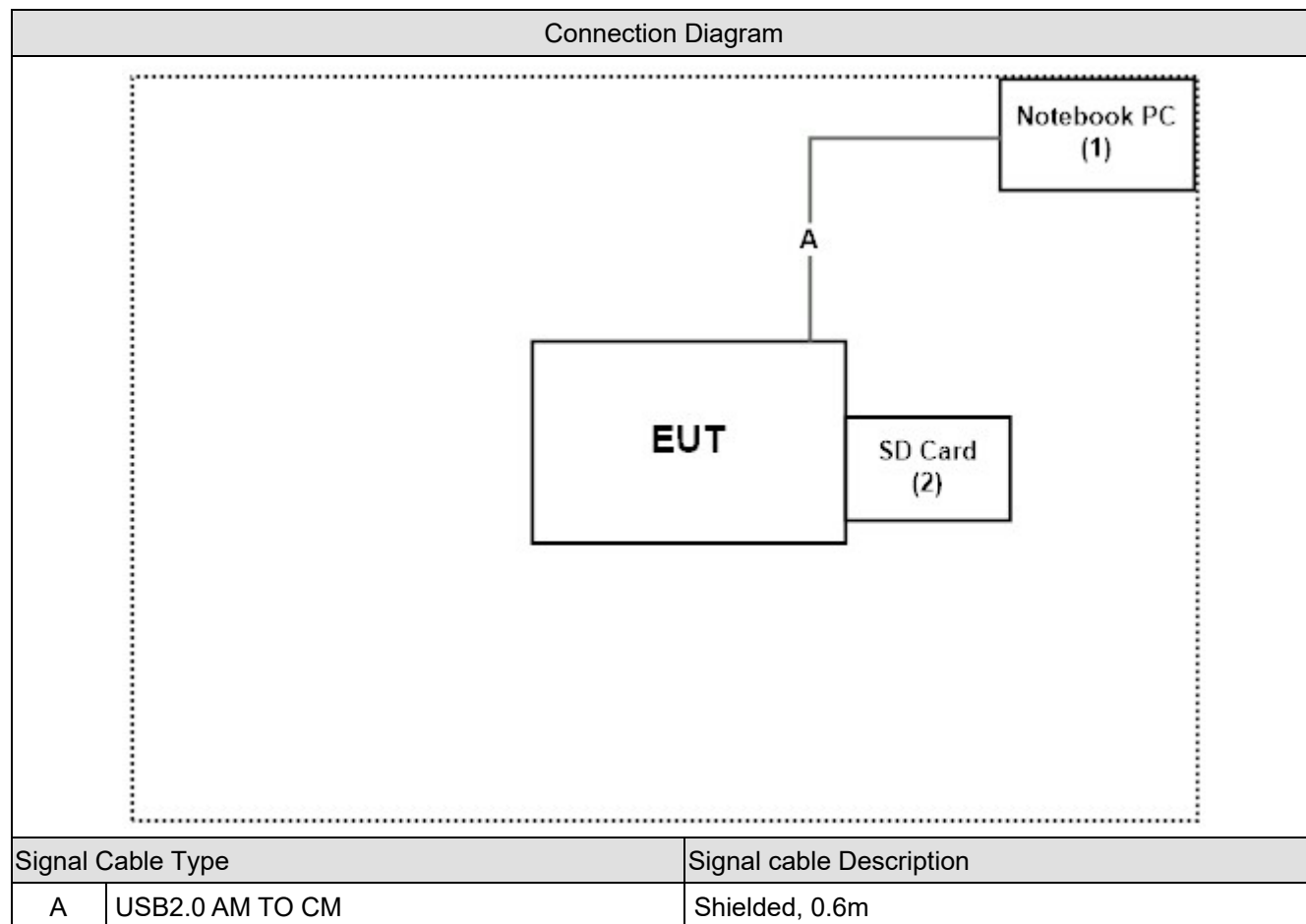
Note:

1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. For radiated emission below 1 GHz and AC power line conducted emission have performed all modes of operation were investigated and the worst-case emissions are reported.
3. The spectrum plot against conducted item only shows the worst case.
4. The modulation and bandwidth are similar for 802.11n mode for 20MHz/40MHz and 802.11ac mode for 20MHz/40MHz/80MHz. Therefore, the worst case was investigated to representative the mode(802.11ac) in the test report.
5. Lowest data rates are tested in each mode. Only worst case is shown in the report.  
(802.11a is 6Mbps, 802.11ac is MCS0)
6. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

## 2.5. Tested System Details

| No. | Equipment   | Brand Name | Model No.     | Serial No. | Power Cord |
|-----|-------------|------------|---------------|------------|------------|
| 1   | Notebook PC | DELL       | Latitude 5501 | 8JHGL13    | N/A        |
| 2   | SD Card     | Kingston   | Kingston 16GB | N/A        | N/A        |

## 2.6. Configuration of tested System

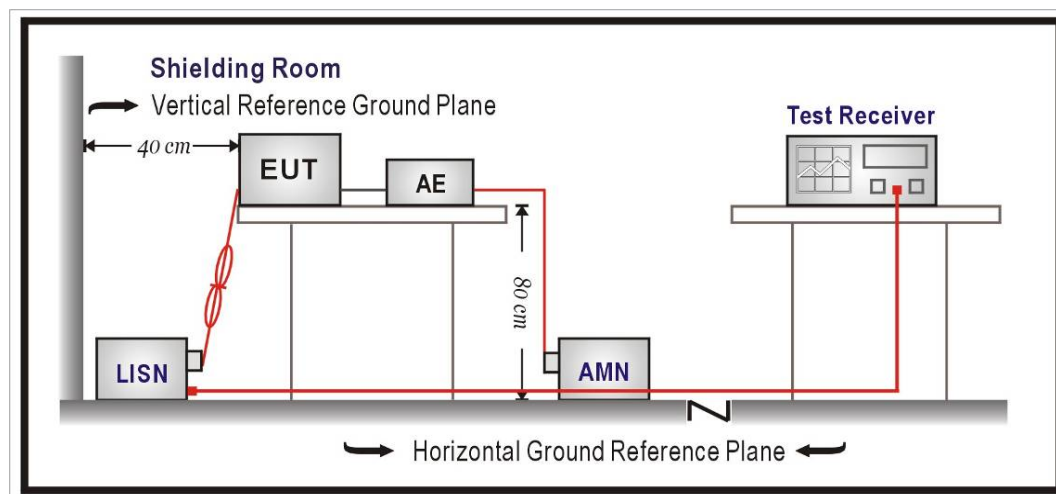


## 2.7. EUT Operating Procedures

|   |                                                                                                         |
|---|---------------------------------------------------------------------------------------------------------|
| 1 | Setup the EUT as shown in Section 2.6.                                                                  |
| 2 | Execute software "KC36D10 Vendor Command Tool Version c01.12.20240815.OD New 32bit" on the Notebook PC. |
| 3 | Configure the test mode, the test channel, and the data rate.                                           |
| 4 | Verify that the EUT works properly.                                                                     |

### 3. AC Power Line Conducted Emission

#### 3.1. Test Setup



#### 3.2. Test Limit

| Frequency (MHz) | QP (dB $\mu$ V) | AV (dB $\mu$ V) |
|-----------------|-----------------|-----------------|
| 0.15 - 0.50     | 66 - 56         | 56 - 46         |
| 0.50 - 5.0      | 56              | 46              |
| 5.0 - 30        | 60              | 50              |

Remark: In the above table, the tighter limit applies at the band edges.

#### 3.3. Test Procedure

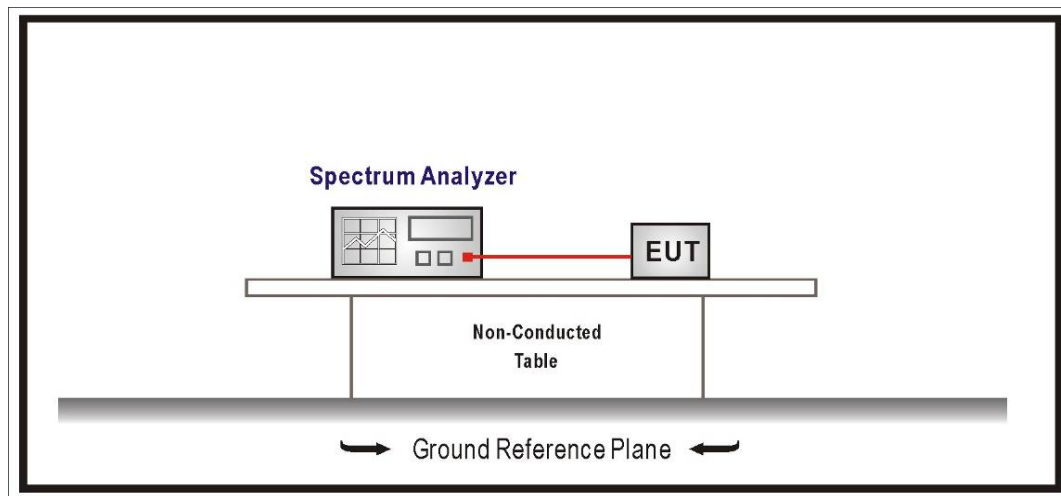
The EUT was setup according to ANSI C63.10: 2013 for AC Power Line Conducted Emissions.

#### 3.4. Test Result of AC Power Line Conducted Emission

Refer as Appendix A

## 4. Emission Bandwidth

### 4.1. Test Setup



### 4.2. Test Limit

26 dB Bandwidth : No Required

6 dB Bandwidth  $\geq$  500kHz

### 4.3. Test Procedure

26 dB Bandwidth, 99% Occupied Bandwidth :

The EUT was tested according to U-NII test procedure of KDB 789033.

Set RBW 1% of the emission bandwidth, VBW equal to 3 times the RBW.

6 dB Bandwidth :

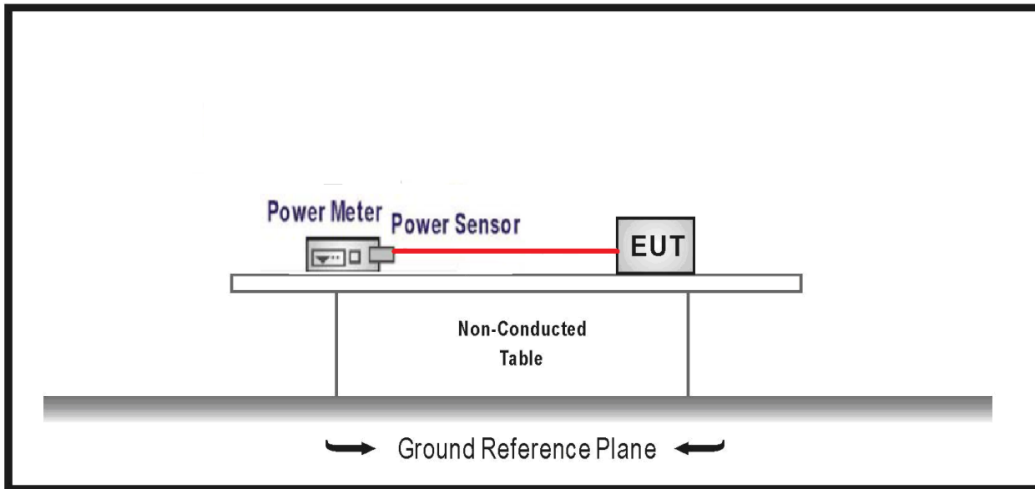
Set RBW = 100kHz, VBW  $\geq$  3xRBW, Sweep time=Auto, Set Peak detector.

### 4.4. Test Result of Emission Bandwidth

Refer as Appendix B

## 5. Maximum Conducted Output Power

### 5.1. Test Setup



## 5.2. Test Limit

1. For an outdoor access point and an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

## 5.3. Test Procedure

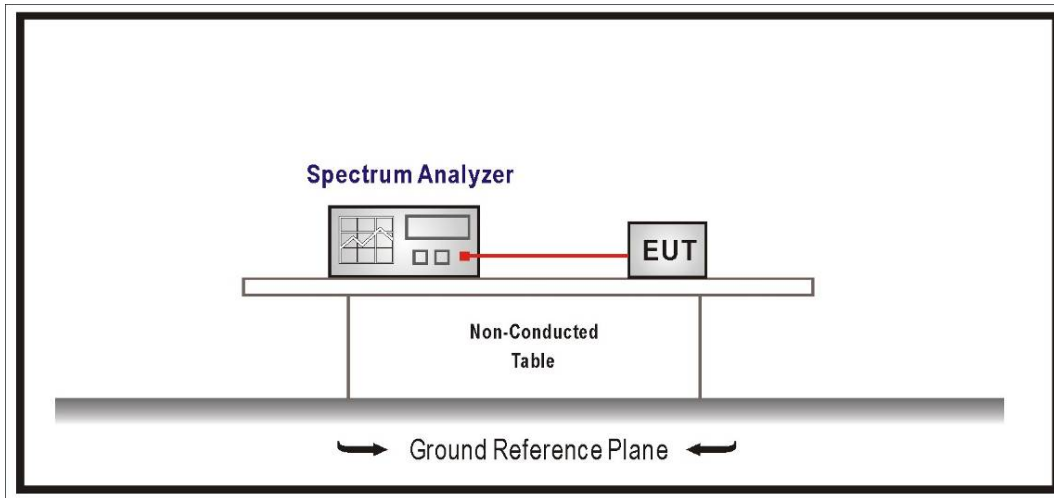
The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of 789033.

## 5.4. Test Result of Maximum Conducted Output Power

Refer as Appendix C

## 6. Maximum Power Spectral Density

### 6.1. Test Setup



### 6.2. Test Limit

1. For the band 5.15 ~ 5.25 GHz, the peak power spectral density shall not exceed 17 dBm in any 1 MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
2. For client devices in the 5.15 ~ 5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi
3. For the 5.25 ~ 5.35 GHz ,5470 ~ 5600 MHz and 5650 ~ 5725 MHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
4. For the band 5.725 ~ 5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

### 6.3. Test Procedure

The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of 789033.

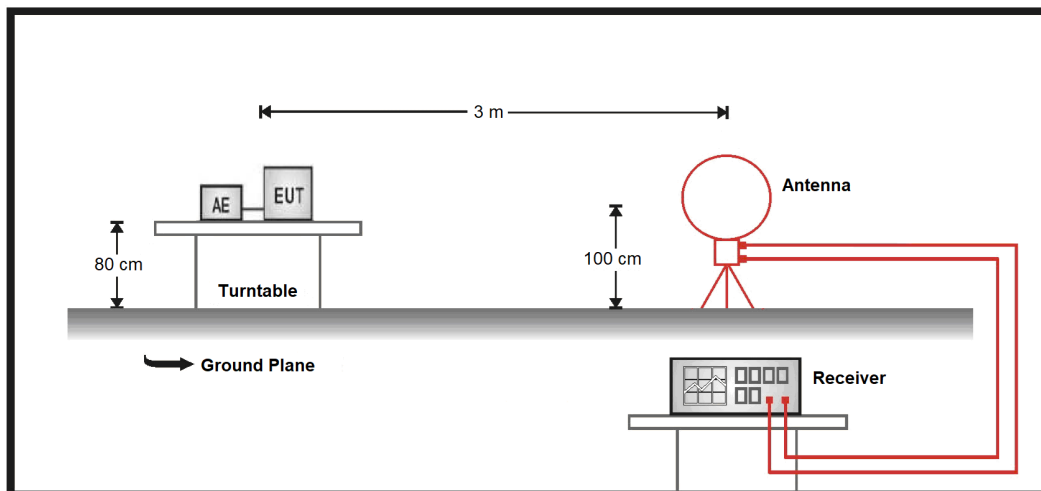
### 6.4. Test Result of Maximum Power Spectral Density

Refer as Appendix D

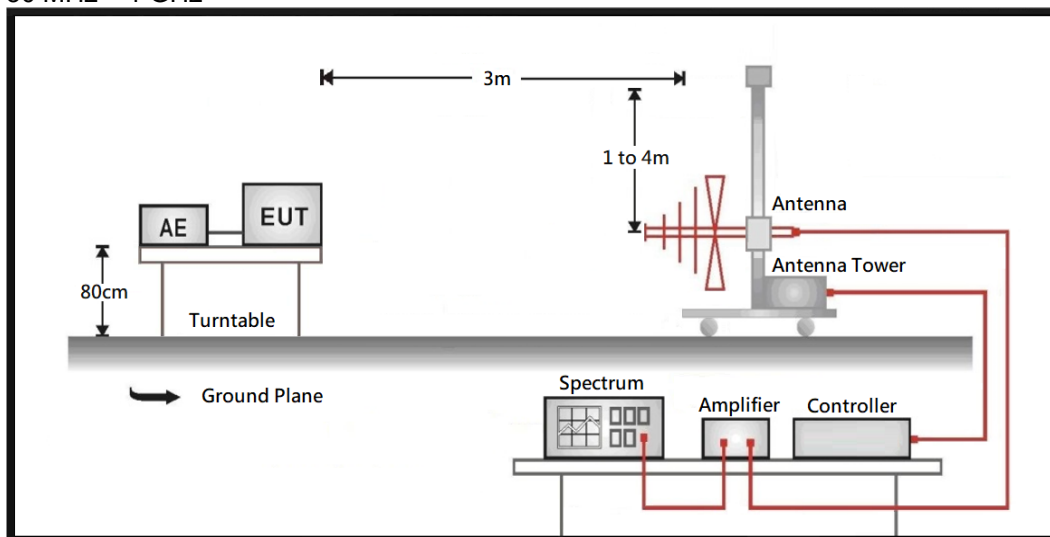
## 7. Transmitter Radiated Spurious Emission

### 7.1. Test Setup

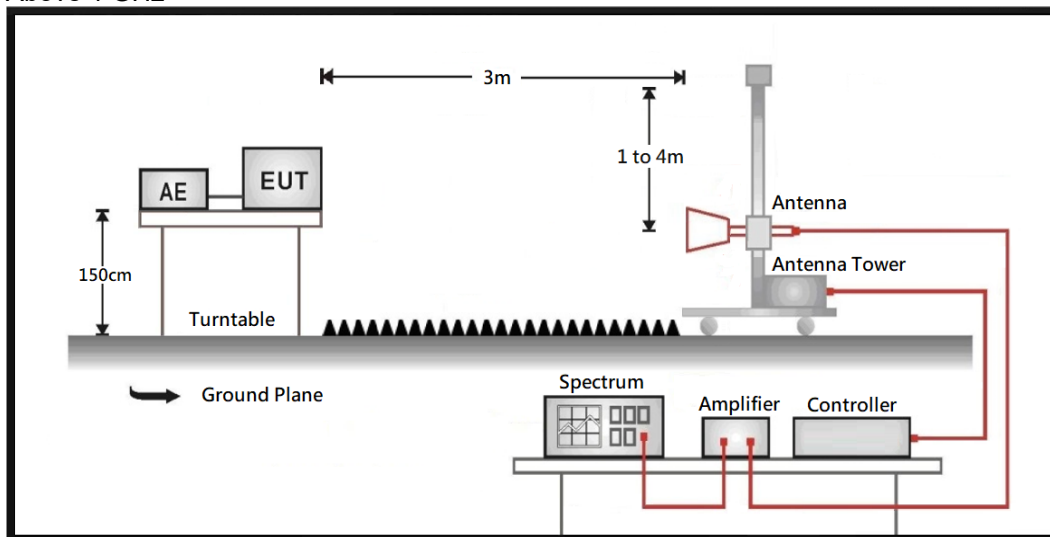
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



## 7.2. Test Limit

| Frequency (MHz) | Field strength (μV/m) | Field strength (dBμV/m) | Measurement distance (m) |
|-----------------|-----------------------|-------------------------|--------------------------|
| 0.009 – 0.490   | 2400/F(kHz)           | 20 log (2400/F(kHz))    | 300                      |
| 0.490 – 1.705   | 24000/F(kHz)          | 20 log (24000/F(kHz))   | 30                       |
| 1.705 - 30      | 30                    | 29.5                    | 30                       |
| 30 - 88         | 100                   | 40                      | 3                        |
| 88 - 216        | 150                   | 43.5                    | 3                        |
| 216 - 960       | 200                   | 46                      | 3                        |
| Above 960       | 500                   | 54                      | 3                        |

Remarks:

1. Field strength (dBμV/m) = 20 log Field strength (μV/m)
2. In the Above Table, the tighter limit applies at the band edges.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

### Unwanted Emission out of the restricted bands Test Limit

| Frequency (MHz) | EIRP Limit (dBm/MHz) | Equivalent Field Strength (dBμV/m@3m) |
|-----------------|----------------------|---------------------------------------|
| 5150 – 5250     | -27                  | 68.2                                  |
| 5250 – 5350     | -27                  | 68.2                                  |
| 5470 – 5725     | -27                  | 68.2                                  |
| 5725 – 5850     | -27 <sup>*1</sup>    | 68.2 <sup>*1</sup>                    |
|                 | 10 <sup>*2</sup>     | 105.2 <sup>*2</sup>                   |
|                 | 15.6 <sup>*3</sup>   | 110.8 <sup>*3</sup>                   |
|                 | 27 <sup>*4</sup>     | 122.2 <sup>*4</sup>                   |

<sup>\*1</sup> beyond 75 MHz or more above of the band edge.

<sup>\*2</sup> below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

<sup>\*3</sup> below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

<sup>\*4</sup> from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark:

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \text{ uV/m, where P is the eirp (Watts).}$$

### **7.3. Test Procedure**

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 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 additional latch filter below 1 GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth below 1 GHz setting on the field strength meter is 120 kHz, above 1 GHz are 1 MHz.

The frequency range from 9 kHz to 10th harmonics and included The frequency range from the lowest oscillator frequency generated within the device up to the 10th harmonic was checked is checked.

### **7.4. Test Result of Transmitter Radiated Spurious Emission**

Refer as Appendix E