



FCC RADIO TEST REPORT

FCC ID : PY7-38061M

Equipment: GSM/WCDMA/LTE/5G Phone with BT, DTS/UNII

a/b/g/n/ac/ax, GPS and NFC

Brand Name : Sony

Applicant : Sony Corporation

1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan

Manufacturer : Sony Corporation

1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan

Standard : FCC Part 15 Subpart C §15.225

The product was received on Apr. 27, 2021 and testing was started from May 03, 2021 and completed on May 06, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Reviewed by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

TEL: 886-3-327-3456 Page Number : 1 of 22 FAX: 886-3-328-4978 Issued Date : May 24, 2021

Report Template No.: BU5-FR15CNFC Version 2.4

Report Version : 01

C3. Results of Radiated Emissions (30MHz~1GHz)

Table of Contents

Report No.: FR133140D

| History | y of this test report | 3 |
|---------|--------------------------------------------------------|----|
| | pary of Test Result | |
| 1. Gen | neral Description | 5 |
| 1.1 | Product Feature of Equipment Under Test | 5 |
| 1.2 | Modification of EUT | 5 |
| 1.3 | | |
| 1.4 | Applicable Standards | 6 |
| 2. Test | t Configuration of Equipment Under Test | 7 |
| 2.1 | Descriptions of Test Mode | 7 |
| 2.2 | Connection Diagram of Test System | 8 |
| 2.3 | Table for Supporting Units | g |
| 2.4 | EUT Operation Test Setup | g |
| 3. Test | t Results | |
| 3.1 | AC Power Line Conducted Emissions Measurement | |
| 3.2 | | |
| 3.3 | - 1 | |
| 3.4 | • | |
| 3.5 | Radiated Emissions Measurement | |
| 3.6 | Antenna Requirements | |
| | of Measuring Equipment | |
| 5. Unc | ertainty of Evaluation | 22 |
| Appen | ndix A. Test Results of Conducted Emission Test | |
| Appen | ndix B. Test Results of Conducted Test Items | |
| B1. | Test Result of 20dB Spectrum Bandwidth | |
| B2. | Test Result of Frequency Stability | |
| Appen | ndix C. Test Results of Radiated Test Items | |
| C1. | Test Result of Field Strength of Fundamental Emissions | |
| C2. | Results of Radiated Emissions (9 kHz~30MHz) | |

TEL: 886-3-327-3456 Page Number : 2 of 22 FAX: 886-3-328-4978 Issued Date : May 24, 2021 Report Version : 01

Report Template No.: BU5-FR15CNFC Version 2.4

History of this test report

Report No. : FR133140D

| Report No. | Version | Description | Issued Date |
|------------|---------|-------------------------|--------------|
| FR133140D | 01 | Initial issue of report | May 24, 2021 |
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TEL: 886-3-327-3456 Page Number : 3 of 22
FAX: 886-3-328-4978 Issued Date : May 24, 2021

Summary of Test Result

Report No.: FR133140D

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|------------------|---------------------|-----------------------------------------|-----------------------|-----------------|
| | | | | Under limit |
| 3.1 | 15.207 | AC Power Line Conducted Emissions | Pass | 9.92 dB at |
| | | | | 0.333MHz |
| 2.2 | 15.215(c) | 20dB Spectrum Bandwidth | Pass | - |
| 2.1049 | | 99% OBW Spectrum Bandwidth | Reporting only | - |
| 3.3 | 15.225(e) | Frequency Stability | Pass | - |
| | | | | Max level |
| 3.4 | 15.225(a)(b)(c) | Field Strength of Fundamental Emissions | Pass | 22.08 dBµV/m at |
| | | | | 13.560 MHz |
| | 15.225(d) | | | Under limit |
| 3.5 | 15.225(d) 15.209 | Radiated Spurious Emissions | Pass | 4.75 dB at |
| | 10.203 | | | 40.670MHz |
| 3.6 | 15.203 | Antenna Requirements | Pass | - |

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

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.

Reviewed by: Keven Cheng Report Producer: Tina Chuang

TEL: 886-3-327-3456 Page Number : 4 of 22
FAX: 886-3-328-4978 Issued Date : May 24, 2021

1. General Description

1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n/ac/ax, NFC, FM Receiver, and GNSS.

| Product Specification subjective to this standard | | |
|---------------------------------------------------|--|--------------|
| Antenna Type | | Loop Antenna |

Report No.: FR133140D

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

| EUT Information List | | | | | |
|----------------------|--------------------------|--------------|----------------------------|--|--|
| HW Version | SW Version | S/N | Performed | | |
| TIW VEISION | w version Sw version S/N | | Test Item | | |
| | 2.33 | QV72004L7L | Conducted Emission | | |
| Α | 2.422 | OV/7000DN/7! | Radiated Spurious Emission | | |
| | 3.133 | QV7200BN7L | RF Conducted Measurement | | |

| Accessory List | | | |
|---------------------|-----------------------------------------------------|--|--|
| | Model Name : XQZ-UC1 | | |
| AC Adapter | S/N: 0020W51300024 (for Conducted Emission) | | |
| _ | S/N: 0020W51300095 (for Radiated Spurious Emission) | | |
| | Model Name : STH40D | | |
| Earphone | S/N:N/A | | |
| Blacks the Familian | Model Name : SBH82D | | |
| Bluetooth Earphone | S/N: N/A | | |
| HOD Oct to | Model Name : XQZ-UB1 | | |
| USB Cable | S/N: N/A | | |

Note:

- 1. Above EUT list used are electrically identical per declared by manufacturer.
- 2. Above the accessories list are used to exercise the EUT during test, and the serial number of each type of accessories is listed in each section of this report.
- 3. For other wireless features of this EUT, test report will be issued separately.

1.2 Modification of EUT

No modifications are made to the EUT during all test items.

TEL: 886-3-327-3456 Page Number : 5 of 22
FAX: 886-3-328-4978 Issued Date : May 24, 2021

1.3 Testing Location

| Test Site | Sporton International Inc. EMC & Wireless Communications Laboratory | | |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------|--|
| Test Site Location No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978 | | | |
| Test Site No. | Sporton Site No. | | |
| rest site No. | TH03-HY | CO05-HY | |
| Test Engineer Oscar Chi | | Howard Huang | |
| Temperature 22~24°C | | 23~26°C | |
| Relative Humidity | 53~55% 40~50% | | |

Report No.: FR133140D

Note: The test site complies with ANSI C63.4 2014 requirement.

| Test Site | Sporton International Inc. Wensan Laboratory |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855 |
| Test Site No. | Sporton Site No. |
| rest site No. | 03CH11-HY (TAF Code: 3786) |
| Test Engineer | Troye Hsieh |
| Temperature | 20.6~21.2 |
| Relative Humidity | 58.3~68.9 |
| Remark | The Radiated Emission test item subcontracted to Sporton International Inc. Wensan Laboratory. |

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW3786

1.4 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.225
- FCC KDB 414788 D01 Radiated Test Site v01r01
- ANSI C63.10-2013

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.
- 3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

TEL: 886-3-327-3456 Page Number : 6 of 22 FAX: 886-3-328-4978 Issued Date : May 24, 2021

2. Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

Investigation has been done on all the possible configurations.

The following table is a list of the test modes shown in this test report.

| Test Items | | | |
|-----------------------------------|-----------------------------------------|--|--|
| AC Power Line Conducted Emissions | Field Strength of Fundamental Emissions | | |
| 20dB Spectrum Bandwidth | Frequency Stability | | |
| Radiated Emissions 9kHz~30MHz | Radiated Emissions 30MHz~1GHz | | |

Report No.: FR133140D

The NFC test is performed with app "NFC PRBS Test Mode" installed in the mobile phone. It can enable continuous transmission with type F tag respectively.

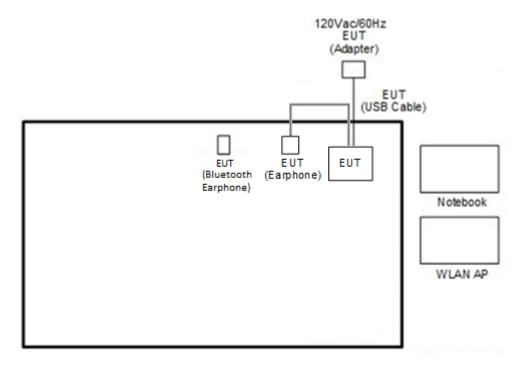
The EUT pre-scanned in four NFC type, A, B, F, V. The worst type (type F) was recorded in this report. Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (Y plane as worst plane) from all possible combinations.

| | Test Cases | | | | |
|-----------|----------------------------------------------------------------------------|--|--|--|--|
| AC | Mode 1: NFC Tx + Bluetooth Link + WLAN (2.4GHz) Link + SD Card + USB Cable | | | | |
| Conducted | (Charging from AC Adapter) + Earphone + Battery | | | | |
| Emission | (enaiging nemitic reaptor) - Larphone - Land, | | | | |

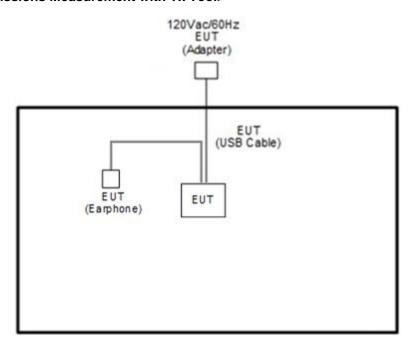
TEL: 886-3-327-3456 Page Number : 7 of 22
FAX: 886-3-328-4978 Issued Date : May 24, 2021

2.2 Connection Diagram of Test System

<AC Conducted Emissions>



<For Radiated Emissions Measurement with Tx Tool>



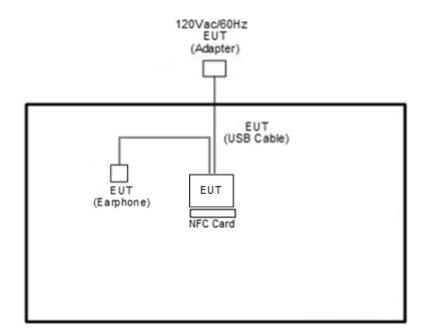
: 8 of 22 TEL: 886-3-327-3456 Page Number FAX: 886-3-328-4978 Issued Date : May 24, 2021

Report Template No.: BU5-FR15CNFC Version 2.4

Report No.: FR133140D

Report Version : 01

<For Radiated Emissions Measurement with NFC Card>



Report No.: FR133140D

2.3 Table for Supporting Units

| Item | Equipment | Brand Name | Model Name | FCC ID | Data Cable | Power Cord |
|------|-----------|------------|------------------|-------------|------------|----------------------------------------------------------|
| 1. | WLAN AP | ASUS | RT-AC66U | MSQ-RTAC66U | N/A | Unshielded, 1.8 m |
| 2. | SD Card | SanDisk | MicroSD HC | FCC DoC | N/A | N/A |
| 3. | Notebook | Dell | Latitude 3400 | FCC DOC | N/A | AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m |
| 4. | NFC Card | N/A | N/A | N/A | N/A | N/A |

2.4 EUT Operation Test Setup

The EUT was programmed to be in continuously transmitting mode.

The ancillary equipment, NFC card, is used to make the EUT (NFC) continuously transmitting signal (Power Level: Default) at 13.56MHz and is placed around 1 cm gap to the EUT.

The RF test items, utility "NFC PRBS Test Mode" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level (Power setting: Default), data rate (Type F Bit Rate: 212kbps) and the application type and for continuous transmitting signals.

TEL: 886-3-327-3456 Page Number : 9 of 22 FAX: 886-3-328-4978 Issued Date : May 24, 2021

3. Test Results

3.1 AC Power Line Conducted Emissions Measurement

3.1.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Report No.: FR133140D

| Frequency of Emission | Conducted Limit (dBμV) | | |
|-----------------------|------------------------|-----------|--|
| (MHz) | Quasi-Peak | Average | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | |
| 0.5-5 | 56 | 46 | |
| 5-30 | 60 | 50 | |

^{*}Decreases with the logarithm of the frequency.

For terminal test result, the testing follows FCC KDB 174176.

3.1.2 Measuring Instruments

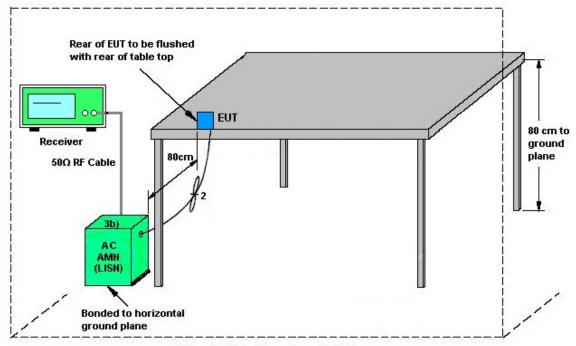
See list of measuring equipment of this test report.

3.1.3 Test Procedures

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

TEL: 886-3-327-3456 Page Number : 10 of 22 FAX: 886-3-328-4978 Issued Date : May 24, 2021

3.1.4 Test setup



Report No.: FR133140D

AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

ISN = Impedance stabilization network

3.1.5 Test Result of AC Conducted Emission

Please refer to Appendix A.

Note:

(1) with antenna

Remark: 13.560MHz is the NFC RF fundamental signal.

(2) with dummy load

Remark: Only the fundamental NFC signal needs to be retested per C63.4.

TEL: 886-3-327-3456 Page Number : 11 of 22 FAX: 886-3-328-4978 Issued Date : May 24, 2021 Report Version : 01

Report Template No.: BU5-FR15CNFC Version 2.4

3.2 20dB and 99% OBW Spectrum Bandwidth Measurement

3.2.1 Limit

Intentional radiators must be designed to ensure that the 20 dB and 99% emission bandwidth in the specific band 13.553~13.567 MHz.

Report No.: FR133140D

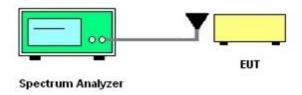
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

- The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max Hold Mode.
- 2. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
- 3. Measured the spectrum width with power higher than 20 dB below carrier.
- 4. Measured the 99% OBW.

3.2.4 Test Setup



3.2.5 Test Result of Conducted Test Items

Please refer to Appendix B.

TEL: 886-3-327-3456 Page Number : 12 of 22
FAX: 886-3-328-4978 Issued Date : May 24, 2021

3.3 Frequency Stability Measurement

3.3.1 Limit

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed by using a new battery.

Report No.: FR133140D

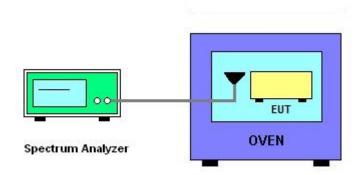
3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

- 1. The spectrum analyzer connected via a receive antenna placed near the EUT.
- 2. EUT has transmitted signal and fixed channelize.
- 3. Set the spectrum analyzer span to view the entire emissions bandwidth.
- 4. Set RBW = 1 kHz, VBW = 3 kHz with peak detector and maxhold settings.
- 5. The fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 10^6$ ppm and the limit is less than ± 100 ppm.
- 6. Extreme temperature rule is -20°C~50°C.

3.3.4 Test Setup



3.3.5 Test Result of Conducted Test Items

Please refer to Appendix B.

TEL: 886-3-327-3456 Page Number : 13 of 22 FAX: 886-3-328-4978 Issued Date : May 24, 2021

3.4 Field Strength of Fundamental Emissions and Mask Measurement

Report No.: FR133140D

3.4.1 Limit

| Rules and specifications | FCC CFR 47 Part 15 section 15.225 | | | | | | |
|---------------------------|-----------------------------------|-----------------|-----------------|----------------|--|--|--|
| Description | Compliance with th | o 9kHz. | | | | | |
| From of Francisco (MIII-) | Field Strength | Field Strength | Field Strength | Field Strength | | | |
| Freq. of Emission (MHz) | (µV/m) at 30m | (dBµV/m) at 30m | (dBµV/m) at 10m | (dBµV/m) at 3m | | | |
| 1.705~13.110 | 30 | 29.5 | 48.58 | 69.5 | | | |
| 13.110~13.410 | 106 | 40.5 | 59.58 | 80.5 | | | |
| 13.410~13.553 | 334 | 50.5 | 69.58 | 90.5 | | | |
| 13.553~13.567 | 15848 | 84.0 | 103.08 | 124.0 | | | |
| 13.567~13.710 | 334 | 50.5 | 69.58 | 90.5 | | | |
| 13.710~14.010 | 106 | 40.5 | 59.58 | 80.5 | | | |
| 14.010~30.000 | 30 | 29.5 | 48.58 | 69.5 | | | |

Remark:

3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

TEL: 886-3-327-3456 Page Number: 14 of 22
FAX: 886-3-328-4978 Issued Date: May 24, 2021

^{1.} The field strength test result is in 3m test distance, follow test rules the test data use distance extrapolation factor and reported in this report at 30m test result.

^{2.} Distance extrapolation factor = 40 log (specific distance / test distance) (dB)

3.4.3 Test Procedures

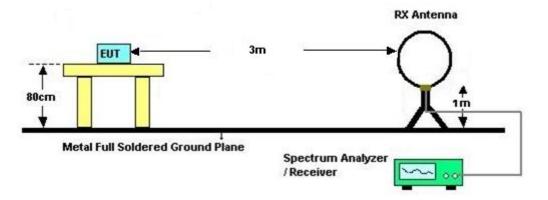
 Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.

Report No.: FR133140D

- Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.
- 4. For Fundamental emissions, use the receiver to measure QP reading.
- 5. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- Compliance with the spectrum mask is tested with RBW set to 9 kHz.
 Note: Emission level (dBμV/m) = 20 log Emission level (μV/m).

3.4.4 Test Setup

For radiated test below 30MHz



3.4.5 Test Result of Field Strength of Fundamental Emissions and Mask

Please refer to Appendix C.

TEL: 886-3-327-3456 Page Number : 15 of 22 FAX: 886-3-328-4978 Issued Date : May 24, 2021

3.5 Radiated Emissions Measurement

3.5.1 Limit

The field strength of any emissions which appear outside of 13.110 ~14.010MHz band shall not exceed the general radiated emissions limits.

Report No.: FR133140D

| Frequencies | Field Strength | Measurement Distance | | |
|-------------|----------------|----------------------|--|--|
| (MHz) | (μV/m) | (meters) | | |
| 0.009~0.490 | 2400/F(kHz) | 300 | | |
| 0.490~1.705 | 24000/F(kHz) | 30 | | |
| 1.705~30.0 | 30 | 30 | | |
| 30~88 | 100 | 3 | | |
| 88~216 | 150 | 3 | | |
| 216~960 | 200 | 3 | | |
| Above 960 | 500 | 3 | | |

3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Measuring Instrument Setting

The following table is the setting of receiver:

| Receiver Parameter | Setting |
|--------------------------------|---------------------|
| Attenuation | Auto |
| Frequency Range: 9kHz~150kHz | RBW 200Hz for QP |
| Frequency Range: 150kHz~30MHz | RBW 9kHz for QP |
| Frequency Range: 30MHz~1000MHz | RBW 120kHz for Peak |

Note: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz and 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

TEL: 886-3-327-3456 Page Number : 16 of 22 FAX: 886-3-328-4978 Issued Date : May 24, 2021

3.5.4 Test Procedures

 Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.

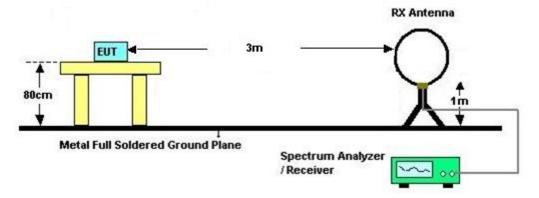
Report No.: FR133140D

- Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 7. In case the emission is lower than 30 MHz, loop antenna has to be used for measurement and the recorded data shall be QP measured by receiver.

TEL: 886-3-327-3456 Page Number : 17 of 22
FAX: 886-3-328-4978 Issued Date : May 24, 2021

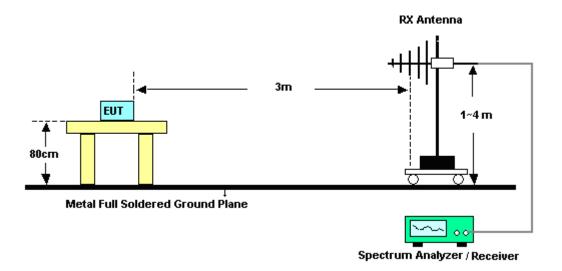
3.5.5 Test Setup

For radiated test below 30MHz



Report No.: FR133140D

For radiated test above 30MHz



3.5.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix C.

Remark:

- There is a comparison data of both open-field test site and alternative test site semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.
- 2. According to C63.10 radiated Test, the EUT pre-scanned horizontal, vertical, and ground-parallel three polarization's, the worst case is horizontal & vertical polarization, test data of two mode was reported.

TEL: 886-3-327-3456 Page Number: 18 of 22
FAX: 886-3-328-4978 Issued Date: May 24, 2021

3.6 Antenna Requirements

3.6.1 Standard Applicable

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

Report No.: FR133140D

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

TEL: 886-3-327-3456 Page Number : 19 of 22
FAX: 886-3-328-4978 Issued Date : May 24, 2021

4. List of Measuring Equipment

| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---------------------|------------|-----------|------------|------------------|---------------------|----------------|----------------|------------|
| AC Power Source | ChainTek | APC-1000W | N/A | N/A | N/A | May 03, 2021 | N/A | Conducted |
| 7.0 . 5 55455 | | 7 0 | . 47. | , | | | ,, . | (TH03-HY) |
| Hygrometer | Testo | 608-H1 | 34893241 | N/A | Mar. 03, 2021 | May 03, 2021 | Mar. 02, 2022 | Conducted |
| - Tygromotor | 10010 | 000 111 | 0 10002 11 | 14/71 | Wai: 00, 2021 | Way 00, 2021 | Wan 02, 2022 | (TH03-HY) |
| Spectrum | Rohde & | FSP30 | 101329 | 9kHz~30GHz | Sep. 03, 2020 | May 03, 2021 | Sep. 02, 2021 | Conducted |
| Analyzer | Schwarz | 1 01 30 | 101323 | 3KI 12**3001 12 | OCP. 00, 2020 | Way 05, 2021 | ОСР. 02, 2021 | (TH03-HY) |
| Temperature | ESPEC | SH-641 | 92013720 | -40℃ ~90℃ | Sep. 14, 2020 | May 03, 2021 | Sep. 13, 2021 | Conducted |
| Chamber | Loi Lo | 311-041 | 92013720 | -40 C ~90 C | Sep. 14, 2020 | Way 03, 2021 | | (TH03-HY) |
| AC Power Source | ChainTek | APC-1000W | N/A | N/A | N/A | May 04, 2021 | N/A | Conduction |
| ACT OWEI Source | Chairriek | AFC-1000W | IN/A | IN/A | IN/A | Way 04, 2021 | 14/74 | (CO05-HY) |
| EMI Test Receiver | Rohde & | ESR3 | 102388 | 9kHz~3.6GHz | Nov. 30, 2020 | May 04, 2021 | Nov. 29, 2021 | Conduction |
| Livii Test Neceivei | Schwarz | LONG | 102300 | 3KI 12~3.001 12 | 1404. 30, 2020 | Way 04, 2021 | 1407. 29, 2021 | (CO05-HY) |
| Hygrometer | Testo | 608-H1 | 34913912 | N/A | Nov. 18, 2020 | May 04, 2021 | Nov. 17, 2021 | Conduction |
| riygiometei | 10310 | | | | | | | (CO05-HY) |
| LISN | Rohde & | ENV216 | 100081 | 9kHz~30MHz | Nov. 16, 2020 | May 04, 2021 | Nov. 15, 2021 | Conduction |
| LIGIN | Schwarz | LINVZIO | 100001 | 3KI 12~30IVII 12 | 1407. 10, 2020 | Way 04, 2021 | 1400. 13, 2021 | (CO05-HY) |
| Software | Rohde & | EMC32 | N/A | N/A | N/A | May 04, 2021 | N/A | Conduction |
| Sonware | Schwarz | V10.30 | IN/A | IN/A | IN/A | May 04, 2021 | IN/A | (CO05-HY) |
| LISN Cable | MVE | BC 400 | 260260 | NI/A | Doc 21 2020 | May 04, 2021 | Dec. 30, 2021 | Conduction |
| LISIN Cable | IVIVE | RG-400 | 260260 | N/A | Dec. 31, 2020 | IVIAY 04, 2021 | Dec. 30, 2021 | (CO05-HY) |
| Pulse Limiter | Rohde & | ESH3-Z2 | 100851 | N/A | Feb. 25, 2021 | May 04, 2021 | Feb. 24, 2022 | Conduction |
| r uise Lillillei | Schwarz | L3113-ZZ | 100001 | IN/A | 1 Eb. 23, 2021 | IVIAY 04, 2021 | 1-60. 24, 2022 | (CO05-HY) |

Report No.: FR133140D

TEL: 886-3-327-3456 Page Number : 20 of 22 FAX: 886-3-328-4978 Issued Date : May 24, 2021

| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-------------------|--------------------|-----------------------|---------------------|-------------------------------|---------------------|-------------------------------|---------------|--------------------------|
| Software | Audix | E3 6.2009-8-24 | RK-00105 | N/A | N/A | May 05, 2021~ May 06, 2021 | N/A | Radiation (03CH11-HY) |
| Amplifier | SONOMA | 310N | 187312 | 9kHz~1GHz | Dec. 02, 2020 | May 05, 2021~ May 06, 2021 | Dec. 01, 2021 | Radiation (03CH11-HY) |
| Bilog Antenna | TESEQ | CBL 6111D & N-6-06 | 35414 & AT-N0602 | 30MHz~1GHz | Oct. 11, 2020 | May 05, 2021~ May 06, 2021 | Oct. 10, 2021 | Radiation (03CH11-HY) |
| Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 100315 | 9 kHz~30 MHz | Jan. 04, 2021 | May 05, 2021~ May 06, 2021 | Jan. 03, 2022 | Radiation (03CH11-HY) |
| Controller | EMEC | EM 1000 | N/A | Control Turn table & Ant Mast | N/A | May 05, 2021~ May 06, 2021 | N/A | Radiation (03CH11-HY) |
| Antenna Mast | EMEC | AM-BS-4500- B | N/A | 1~4m | N/A | May 05, 2021~ May 06, 2021 | N/A | Radiation (03CH11-HY) |
| Turn Table | EMEC | TT 2000 | N/A | 0~360 Degree | N/A | May 05, 2021~ May 06, 2021 | N/A | Radiation (03CH11-HY) |
| EMI Test Receiver | Keysight | N9038A (MXE) | MY541300 85 | 20MHz~8.4GHz | Nov. 02, 2020 | May 05, 2021~ May 06, 2021 | Nov. 01, 2021 | Radiation (03CH11-HY) |
| Filter | Wainwright | WHK20/1000 C7/40SS | SN2 | 20M High Pass | Sep. 14, 2020 | May 05, 2021~ May 06, 2021 | Sep. 13, 2021 | Radiation (03CH11-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY9837/4 PE | 9kHz-30MHz | Mar. 11, 2021 | May 05, 2021~ May 06, 2021 | Mar. 10, 2022 | Radiation (03CH11-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY9837/4 PE | 30M-18G | Mar. 11, 2021 | May 05, 2021~ May 06, 2021 | Mar. 10, 2022 | Radiation (03CH11-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | MY2859/2 | 30MHz-40GHz | Mar. 11, 2021 | May 05, 2021~ May 06, 2021 | Mar. 10, 2022 | Radiation (03CH11-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | MY4274/2 | 30MHz-40GHz | Mar. 11, 2021 | May 05, 2021~ May 06, 2021 | Mar. 10, 2022 | Radiation (03CH11-HY) |
| Hygrometer | TECPEL | DTN-303B | TP200880 | QA-3-031 | Oct. 22, 2020 | May 05, 2021~ May 06, 2021 | Oct. 21, 2021 | Radiation (03CH11-HY) |
| Hygrometer | TECPEL | DTN-303B | TP140325 | N/A | Nov. 18, 2020 | May 05, 2021~ May 06, 2021 | Nov. 17, 2021 | Radiation (03CH11-HY) |

TEL: 886-3-327-3456 Page Number : 21 of 22 FAX: 886-3-328-4978 Issued Date : May 24, 2021

5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

| Measuring Uncertainty for a Level of Confidence | 2.2 |
|-------------------------------------------------|-----|
| of 95% (U = 2Uc(y)) | 2.3 |

Report No.: FR133140D

Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

| Measuring Uncertainty for a Level of Confidence | 3.4 |
|-------------------------------------------------|-----|
| of 95% (U = 2Uc(y)) | • |

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| Measuring Uncertainty for a Level of Confidence | 4.4 |
|-------------------------------------------------|-----|
| of 95% (U = 2Uc(y)) | 4.4 |

TEL: 886-3-327-3456 Page Number : 22 of 22 FAX: 886-3-328-4978 Issued Date : May 24, 2021

Appendix A. Test Results of Conducted Emission Test

| Test Engineer : Howard Huang | | Temperature : | 23~26 ℃ | |
|------------------------------|--------------|---------------------|----------------|--|
| | Howard Huang | Relative Humidity : | 40~50% | |

Report No. : FR133140D

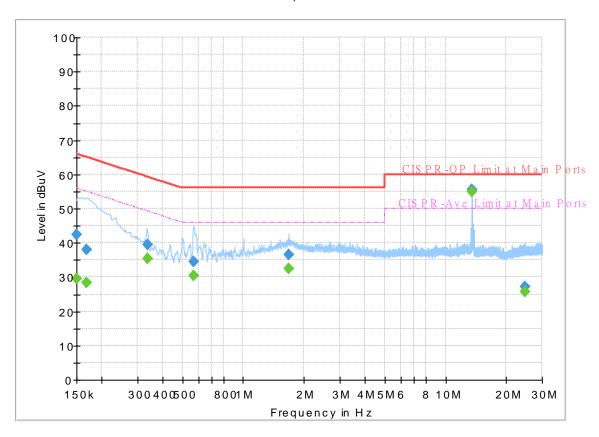
TEL: 886-3-327-3456 Page Number : A1 of A1

Original Mode Report NO :

Report NO: 133140
Test Mode: Mode 1
Test Voltage: 120Vac/60Hz

Phase: Line

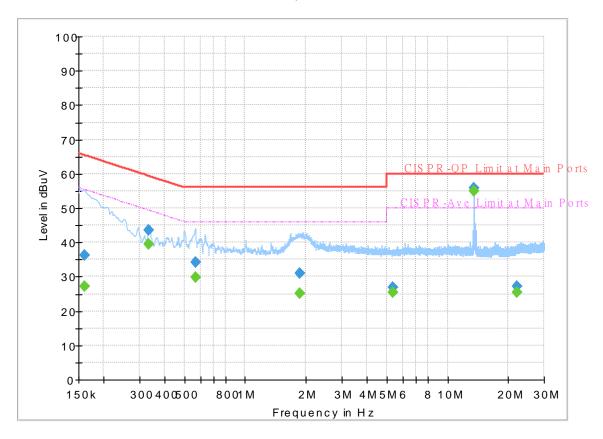
Full Spectrum



| Frequency | QuasiPeak | CAverage | Limit | Margin | Line | Filter | Corr. |
|-----------|-----------|----------|--------|--------|------|--------|-------|
| (MHz) | (dBuV) | (dBuV) | (dBuV) | (dB) | | | (dB) |
| 0.150000 | | 29.48 | 56.00 | 26.52 | L1 | OFF | 19.5 |
| 0.150000 | 42.29 | | 66.00 | 23.71 | L1 | OFF | 19.5 |
| 0.168090 | | 28.46 | 55.05 | 26.59 | L1 | OFF | 19.5 |
| 0.168090 | 38.00 | | 65.05 | 27.05 | L1 | OFF | 19.5 |
| 0.336480 | | 35.50 | 49.29 | 13.79 | L1 | OFF | 19.5 |
| 0.336480 | 39.59 | | 59.29 | 19.70 | L1 | OFF | 19.5 |
| 0.568140 | | 30.38 | 46.00 | 15.62 | L1 | OFF | 19.7 |
| 0.568140 | 34.36 | | 56.00 | 21.64 | L1 | OFF | 19.7 |
| 1.675410 | - | 32.52 | 46.00 | 13.48 | L1 | OFF | 20.0 |
| 1.675410 | 36.67 | | 56.00 | 19.33 | L1 | OFF | 20.0 |
| 13.560000 | - | 54.92 | 50.00 | -4.92 | L1 | OFF | 20.1 |
| 13.560000 | 55.67 | | 60.00 | 4.33 | L1 | OFF | 20.1 |
| 24.612270 | | 25.66 | 50.00 | 24.34 | L1 | OFF | 20.6 |
| 24.612270 | 27.20 | | 60.00 | 32.80 | L1 | OFF | 20.6 |

Report NO: 133140
Test Mode: Mode 1
Test Voltage: 120Vac/60Hz
Phase: Neutral

Full Spectrum



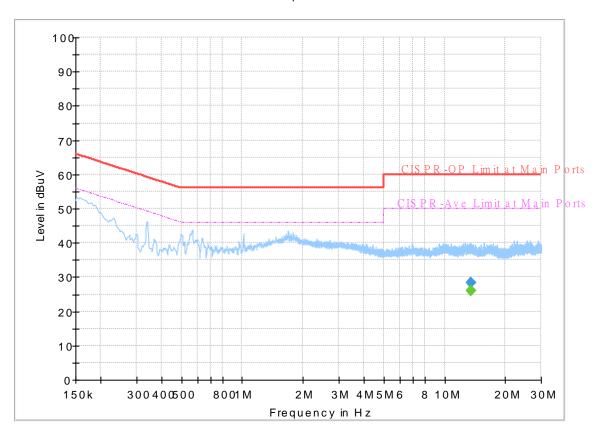
| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|--------------------|---------------------|--------------------|-----------------|----------------|------|--------|---------------|
| 0.161250 | | 27.15 | 55.40 | 28.25 | N | OFF | 19.5 |
| 0.161250 | 36.20 | | 65.40 | 29.20 | N | OFF | 19.5 |
| 0.333150 | | 39.45 | 49.37 | 9.92 | N | OFF | 19.6 |
| 0.333150 | 43.68 | | 59.37 | 15.69 | N | OFF | 19.6 |
| 0.565980 | | 29.90 | 46.00 | 16.10 | N | OFF | 19.8 |
| 0.565980 | 34.35 | | 56.00 | 21.65 | N | OFF | 19.8 |
| 1.861440 | | 25.27 | 46.00 | 20.73 | N | OFF | 20.0 |
| 1.861440 | 31.01 | | 56.00 | 24.99 | N | OFF | 20.0 |
| 5.371440 | | 25.34 | 50.00 | 24.66 | N | OFF | 19.9 |
| 5.371440 | 26.76 | | 60.00 | 33.24 | N | OFF | 19.9 |
| 13.560000 | | 55.11 | 50.00 | -5.11 | N | OFF | 20.2 |
| 13.560000 | 55.99 | | 60.00 | 4.01 | N | OFF | 20.2 |
| 22.086960 | | 25.46 | 50.00 | 24.54 | N | OFF | 20.6 |
| 22.086960 | 27.10 | | 60.00 | 32.90 | N | OFF | 20.6 |

Terminal Mode

Report NO: 133140
Test Mode: Mode 1
Test Voltage: 120Vac/60Hz

Phase: Line

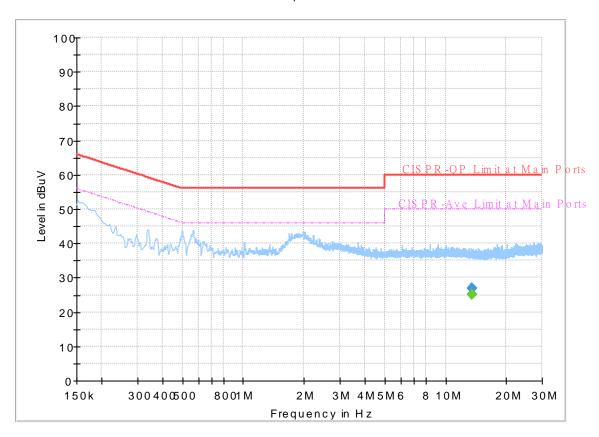
Full Spectrum



| | Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|---|--------------------|---------------------|--------------------|-----------------|----------------|------|--------|---------------|
| Г | 13.560000 | | 25.92 | 50.00 | 24.08 | L1 | OFF | 20.1 |
| | 13.560000 | 28.24 | | 60.00 | 31.76 | L1 | OFF | 20.1 |

Report NO: 133140
Test Mode: Mode 1
Test Voltage: 120Vac/60Hz
Phase: Neutral

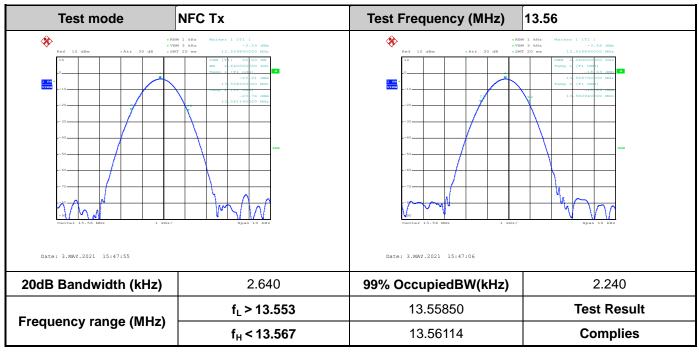
Full Spectrum



| | Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|---|--------------------|---------------------|--------------------|-----------------|----------------|------|--------|---------------|
| Ī | 13.560000 | | 25.21 | 50.00 | 24.79 | N | OFF | 20.2 |
| | 13.560000 | 26.92 | | 60.00 | 33.08 | N | OFF | 20.2 |

Appendix B. Test Results of Conducted Test Items

B1. Test Result of 20dB Spectrum Bandwidth



Report No.: FR133140D

Remark: Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

TEL: 886-3-327-3456 Page Number: B1 of B3



B2. Test Result of Frequency Stability

| Voltage vs. Freq | uency Stability | Temper | ature vs. Frequ | ency Stability |
|------------------|--------------------------------|-----------------|-----------------|-----------------------------|
| Voltage (Vac) | Measurement Frequency (MHz) | Temperature (℃) | Time | Measurement Frequency (MHz) |
| 120 | 13.559820 | -20 | 0 | 13.559900 |
| 102 | 13.559810 | | 2 | 13.559900 |
| 138 | 13.559810 | | 5 | 13.559900 |
| | | | 10 | 13.559900 |
| | | -10 | 0 | 13.559880 |
| | | | 2 | 13.559880 |
| | | | 5 | 13.559880 |
| | | | 10 | 13.559880 |
| | | 0 | 0 | 13.559840 |
| | | | 2 | 13.559860 |
| | | | 5 | 13.559860 |
| | | | 10 | 13.559860 |
| | | 10 | 0 | 13.559810 |
| | | | 2 | 13.559820 |
| | | | 5 | 13.559830 |
| | | | 10 | 13.559830 |
| | | 20 | 0 | 13.559820 |
| | | | 2 | 13.559810 |
| | | | 5 | 13.559800 |
| | | | 10 | 13.559820 |
| | | 30 | 0 | 13.559840 |
| | | | 2 | 13.559830 |
| | | | 5 | 13.559830 |
| | | | 10 | 13.559820 |
| | | 40 | 0 | 13.559800 |
| | | | 2 | 13.559800 |
| | | | 5 | 13.559800 |
| | | | 10 | 13.559800 |

Report No.: FR133140D

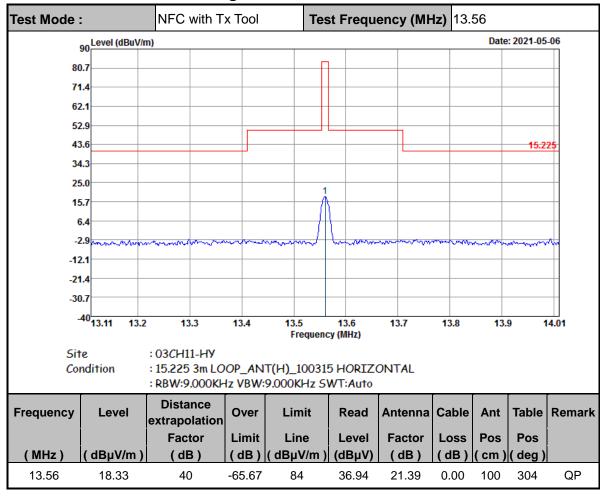
TEL: 886-3-327-3456 Page Number : B2 of B3

| Voltage vs. Frequ | ency Stability | Temperature vs. Frequency Stability | | | | | |
|---------------------|--------------------------------|-------------------------------------|---------------------|--------------------------------|--|--|--|
| Voltage (Vac) | Measurement Frequency (MHz) | Temperature (°C) | Time | Measurement Frequency (MHz) | | | |
| | | 50 0 | | 13.559780 | | | |
| | | 2 | | 13.559780 | | | |
| | | | 5 | 13.559780 | | | |
| | | | 10 | 13.559780 | | | |
| Max.Deviation (MHz) | -0.000190 | Max.Deviation | on (MHz) | -0.000220 | | | |
| Max.Deviation (ppm) | -14.0118 | Max.Deviation | Max.Deviation (ppm) | | | | |
| Limit | FS < ±100 ppm | Limit | | FS < ±100 ppm | | | |
| Test Result | PASS | Test Re | PASS | | | | |

TEL: 886-3-327-3456 Page Number : B3 of B3

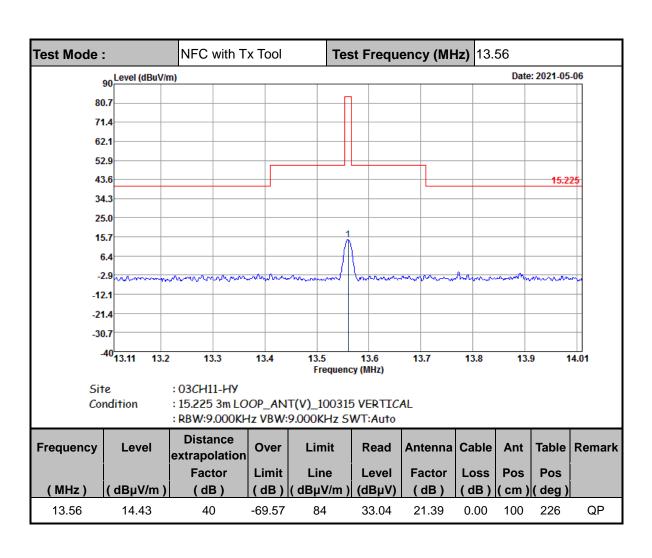
Appendix C. Test Results of Radiated Test Items

C1. Test Result of Field Strength of Fundamental Emissions

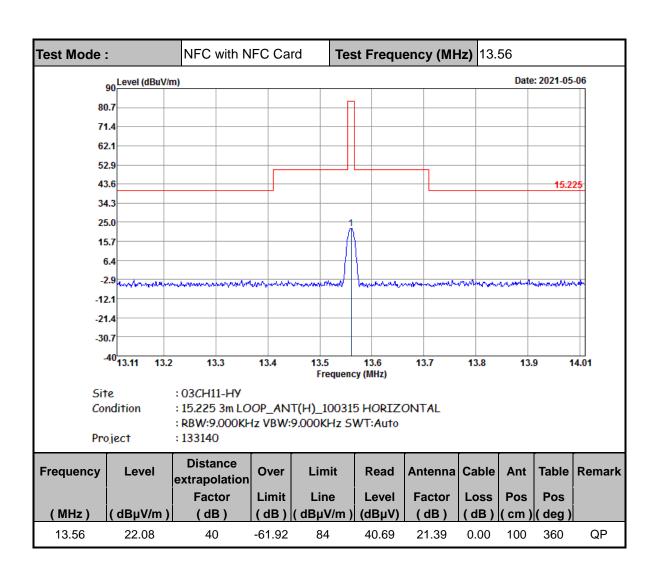


Report No.: FR133140D

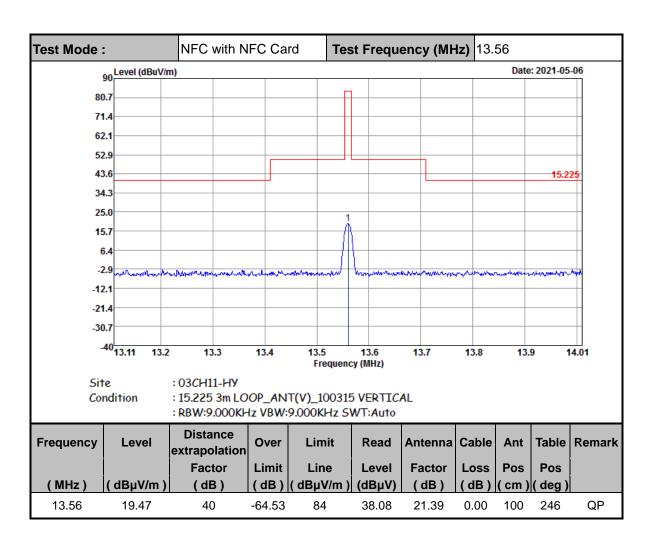
TEL: 886-3-327-3456 Page Number : C1 of C12



TEL: 886-3-327-3456 Page Number : C2 of C12

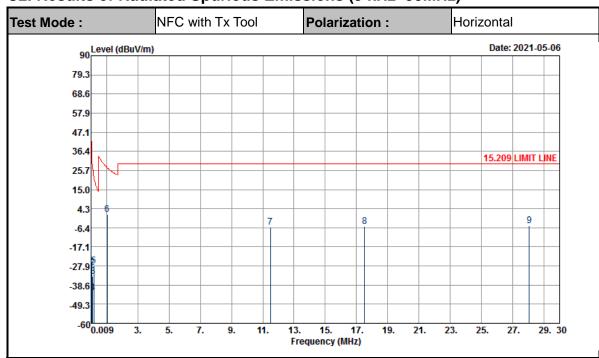


TEL: 886-3-327-3456 Page Number : C3 of C12



TEL: 886-3-327-3456 Page Number : C4 of C12

C2. Results of Radiated Spurious Emissions (9 kHz~30MHz)

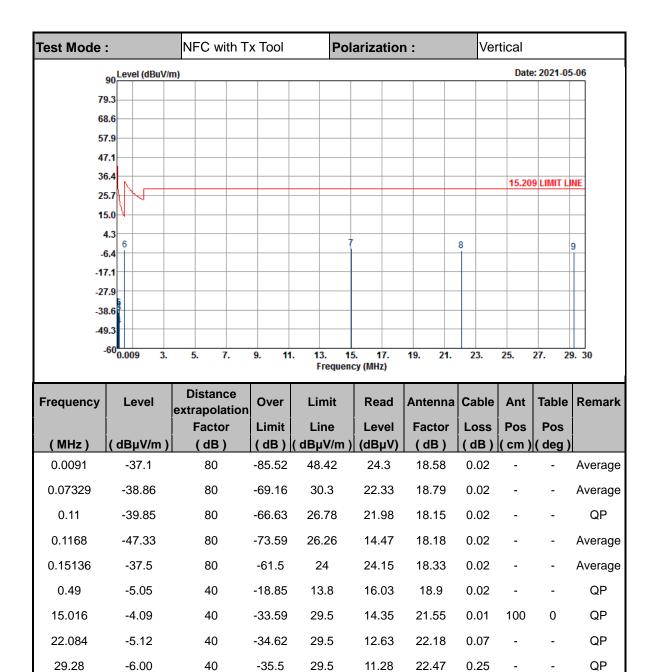


Report No.: FR133140D

| Frequency | Level | Distance extrapolation | Over | Limit | Read | Antenna | Cable | Ant | Table | Remark |
|-----------|----------|------------------------|--------|------------|--------|---------|-------|--------|-------|---------|
| | | Factor | Limit | Line | Level | Factor | Loss | Pos | Pos | |
| (MHz) | (dBµV/m) | (dB) | (dB) | (dBµV/m) | (dBµV) | (dB) | (dB) | (cm) | (deg) | |
| 0.00987 | -31.2 | 80 | -78.92 | 47.72 | 30.35 | 18.43 | 0.02 | - | - | Average |
| 0.07263 | -28.67 | 80 | -59.05 | 30.38 | 32.5 | 18.81 | 0.02 | - | - | Average |
| 0.11 | -33.6 | 80 | -60.38 | 26.78 | 28.23 | 18.15 | 0.02 | - | - | QP |
| 0.11684 | -42.98 | 80 | -69.23 | 26.25 | 18.82 | 18.18 | 0.02 | - | - | Average |
| 0.18026 | -27.95 | 80 | -50.44 | 22.49 | 33.57 | 18.46 | 0.02 | - | - | Average |
| 1.053 | 0.85 | 40 | -26.3 | 27.15 | 21.73 | 19.1 | 0.02 | 100 | 0 | QP |
| 11.48 | -5.9 | 40 | -35.4 | 29.5 | 12.92 | 21.16 | 0.02 | - | - | QP |
| 17.521 | -5.71 | 40 | -35.21 | 29.5 | 12.43 | 21.83 | 0.03 | - | - | QP |
| 28.065 | -5.13 | 40 | -34.63 | 29.5 | 12.24 | 22.42 | 0.21 | - | - | QP |

TEL: 886-3-327-3456 Page Number : C5 of C12





Note:

- 1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
- 3. Limit line = specific limits (dBµV) + distance extrapolation factor

TEL: 886-3-327-3456 Page Number : C6 of C12

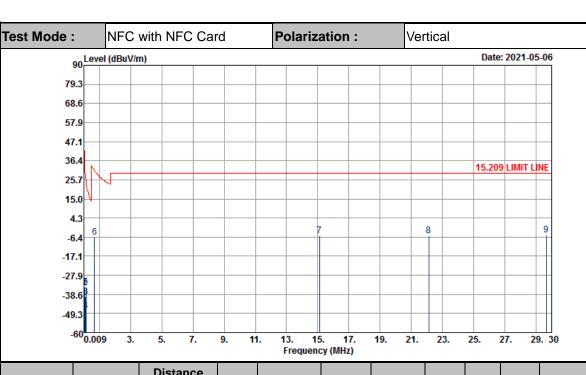


Polarization: Test Mode: NFC with NFC Card Horizontal 90 Level (dBuV/m) Date: 2021-05-06 79.3 68.6 57.9 47.1 36.4 15.209 LIMIT LINE 25.7 15.0 4.3 -6.4 -17.1 -27.9 -38.6 -49.3 -600.009 5. 7. 11. 13. 15. 19. 21. 23. 25. 27. Frequency (MHz)

Report No.: FR133140D

| Frequency | Level | Distance extrapolation | Over | Limit | Read | Antenna | Cable | Ant | Table | Remark |
|-----------|----------|------------------------|--------|------------|--------|---------|-------|--------|-------|---------|
| | | Factor | Limit | Line | Level | Factor | Loss | Pos | Pos | |
| (MHz) | (dBµV/m) | (dB) | (dB) | (dBµV/m) | (dBµV) | (dB) | (dB) | (cm) | (deg) | |
| 0.00997 | -29.43 | 80 | -77.06 | 47.63 | 32.14 | 18.41 | 0.02 | - | - | Average |
| 0.06846 | -29.63 | 80 | -60.53 | 30.9 | 31.43 | 18.92 | 0.02 | - | - | Average |
| 0.11 | -32.27 | 80 | -59.05 | 26.78 | 29.56 | 18.15 | 0.02 | - | - | QP |
| 0.11684 | -42.91 | 80 | -69.16 | 26.25 | 18.89 | 18.18 | 0.02 | - | - | Average |
| 0.15 | -29.02 | 80 | -53.1 | 24.08 | 32.63 | 18.33 | 0.02 | - | - | Average |
| 1.053 | 0.54 | 40 | -26.61 | 27.15 | 21.42 | 19.1 | 0.02 | 100 | 0 | QP |
| 15.32 | -6.36 | 40 | -35.86 | 29.5 | 12.04 | 21.59 | 0.01 | - | - | QP |
| 19.006 | -6.05 | 40 | -35.55 | 29.5 | 11.92 | 21.99 | 0.04 | - | - | QP |
| 25.43 | -5.85 | 40 | -35.35 | 29.5 | 11.72 | 22.32 | 0.11 | - | - | QP |

TEL: 886-3-327-3456 Page Number : C7 of C12



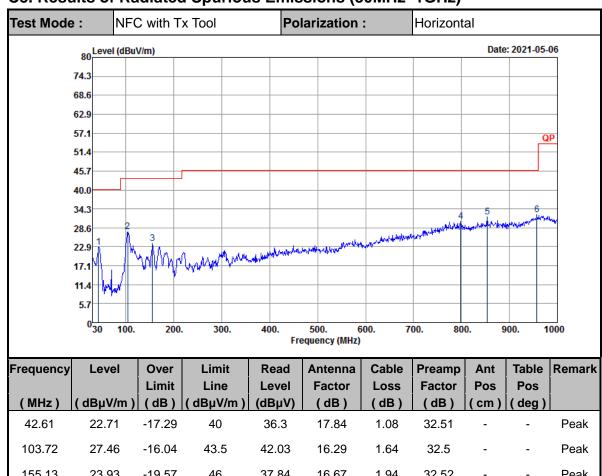
| Frequency | Level | Distance extrapolation | Over | Limit | Read | Antenna | Cable | Ant | Table | Remark |
|-----------|----------|------------------------|--------|------------|--------|---------|-------|--------|-------|---------|
| | | Factor | Limit | Line | Level | Factor | Loss | Pos | Pos | |
| (MHz) | (dBµV/m) | (dB) | (dB) | (dBµV/m) | (dBµV) | (dB) | (dB) | (cm) | (deg) | |
| 0.01002 | -34.89 | 80 | -82.48 | 47.59 | 26.69 | 18.4 | 0.02 | - | - | Average |
| 0.06318 | -35.07 | 80 | -66.66 | 31.59 | 25.85 | 19.06 | 0.02 | - | - | Average |
| 0.11 | -39.93 | 80 | -66.71 | 26.78 | 21.9 | 18.15 | 0.02 | - | - | QP |
| 0.11688 | -47.98 | 80 | -74.23 | 26.25 | 13.82 | 18.18 | 0.02 | - | - | Average |
| 0.15 | -34.67 | 80 | -58.75 | 24.08 | 26.98 | 18.33 | 0.02 | - | - | Average |
| 0.67775 | -6.54 | 40 | -37.52 | 30.98 | 14.47 | 18.97 | 0.02 | - | - | QP |
| 15.12 | -5.73 | 40 | -35.23 | 29.5 | 12.7 | 21.56 | 0.01 | - | - | QP |
| 22.129 | -5.65 | 40 | -35.15 | 29.5 | 12.09 | 22.19 | 0.07 | - | - | QP |
| 29.665 | -5.2 | 40 | -34.7 | 29.5 | 12.04 | 22.49 | 0.27 | 100 | 0 | QP |

Note:

- 1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
- 3. Limit line = specific limits (dBµV) + distance extrapolation factor

TEL: 886-3-327-3456 Page Number : C8 of C12

C3. Results of Radiated Spurious Emissions (30MHz~1GHz)

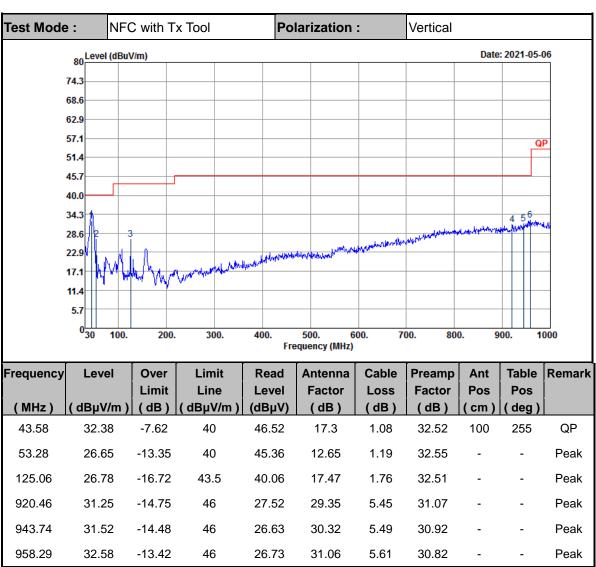


Report No.: FR133140D

| Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark |
|-----------|----------|--------|----------|--------|---------|-------|--------|--------|-------|--------|
| | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | |
| (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB) | (dB) | (dB) | (cm) | (deg) | |
| 42.61 | 22.71 | -17.29 | 40 | 36.3 | 17.84 | 1.08 | 32.51 | - | - | Peak |
| 103.72 | 27.46 | -16.04 | 43.5 | 42.03 | 16.29 | 1.64 | 32.5 | - | - | Peak |
| 155.13 | 23.93 | -19.57 | 46 | 37.84 | 16.67 | 1.94 | 32.52 | - | - | Peak |
| 798.24 | 30.47 | -15.53 | 46 | 28.33 | 28.31 | 5.44 | 31.61 | - | - | Peak |
| 853.53 | 31.91 | -14.09 | 46 | 28.65 | 29.2 | 5.45 | 31.39 | - | - | Peak |
| 957.32 | 32.65 | -13.35 | 46 | 26.86 | 31.02 | 5.6 | 30.83 | 100 | 0 | Peak |
| | | | | | | | | | | |

TEL: 886-3-327-3456 : C9 of C12 Page Number



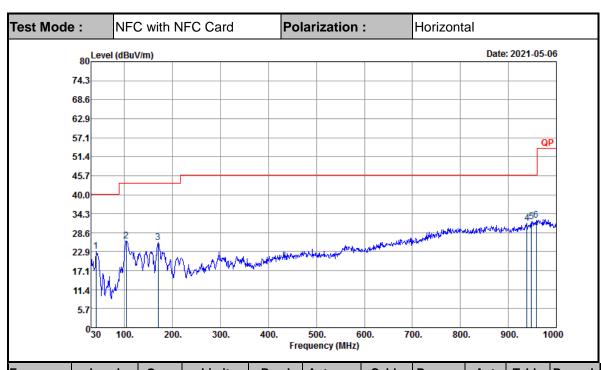


Note:

- 1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 2. Emission level ($dB\mu V/m$) = 20 log Emission level ($\mu V/m$).
- 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor= Level.

TEL: 886-3-327-3456 Page Number : C10 of C12

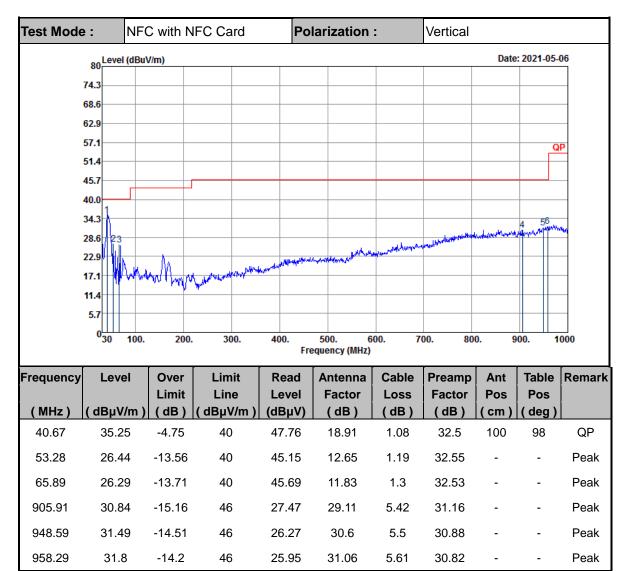




| l | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark |
|---|-----------|---------------|--------|------------|--------|---------|--------|--------|--------|-------|--------|
| | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | |
| | (MHz) | $(dB\mu V/m)$ | (dB) | (dBµV/m) | (dBµV) | (dB) | (dB) | (dB) | (cm) | (deg) | |
| | 40.67 | 22.95 | -17.05 | 40 | 35.46 | 18.91 | 1.08 | 32.5 | - | - | Peak |
| | 103.72 | 26.16 | -17.34 | 43.5 | 40.73 | 16.29 | 1.64 | 32.5 | - | - | Peak |
| | 169.68 | 25.52 | -17.98 | 43.5 | 40.51 | 15.5 | 2.04 | 32.53 | - | - | Peak |
| | 938.89 | 31.32 | -14.68 | 46 | 26.83 | 29.96 | 5.48 | 30.95 | - | - | Peak |
| | 947.62 | 31.81 | -14.19 | 46 | 26.65 | 30.56 | 5.49 | 30.89 | - | - | Peak |
| L | 958.29 | 32.38 | -13.62 | 46 | 26.53 | 31.06 | 5.61 | 30.82 | 100 | 0 | Peak |

TEL: 886-3-327-3456 Page Number : C11 of C12





Note:

- The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 2. Emission level ($dB\mu V/m$) = 20 log Emission level ($\mu V/m$).
- 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor= Level.



TEL: 886-3-327-3456 Page Number : C12 of C12