



# FCC RF Test Report

**APPLICANT** : Motorola Mobility LLC  
**EQUIPMENT** : Mobile Cellular Phone  
**BRAND NAME** : Motorola  
**MODEL NAME** : XT1929-8  
**FCC ID** : IHDT56XE3  
**STANDARD** : FCC Part 15 Subpart C §15.225  
**CLASSIFICATION** : (DXX) Low Power Communication Device Transmitter

This is a variant report. The product was received on Jan. 18, 2018 and testing was completed on Mar. 15, 2018. We, SPORTON INTERNATIONAL INC., 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., the test report shall not be reproduced except in full.

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Reviewed by: Joseph Lin / Supervisor

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Approved by: Jones Tsai / Manager



**SPORTON INTERNATIONAL INC.**

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## REVISION HISTORY

| REPORT NO.   | VERSION | DESCRIPTION             | ISSUED DATE   |
|--------------|---------|-------------------------|---------------|
| FR811821-07D | Rev. 01 | Initial issue of report | Mar. 16, 2018 |
|              |         |                         |               |
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## SUMMARY OF THE TEST RESULT

| Applied Standard: 47 CFR FCC Part 15 Subpart C §15.225                                        |                    |                                         |              |                                            |
|-----------------------------------------------------------------------------------------------|--------------------|-----------------------------------------|--------------|--------------------------------------------|
| Part                                                                                          | FCC Rule           | Description of Test                     | Result       | Remark                                     |
| -                                                                                             | 15.207             | AC Power Line Conducted Emissions       | Not Required | -                                          |
| -                                                                                             | 15.215(c)          | 20dB Spectrum Bandwidth                 | Not Required | -                                          |
|                                                                                               | -                  | 99% OBW Spectrum Bandwidth              | Not Required | -                                          |
| -                                                                                             | 15.225(e)          | Frequency Stability                     | Not Required | -                                          |
| 3.1                                                                                           | 15.225(a)(b)(c)    | Field Strength of Fundamental Emissions | Complies     | Max level<br>68.39 dBμV/m at<br>13.560 MHz |
| 3.2                                                                                           | 15.225(d) & 15.209 | Radiated Spurious Emissions             | Complies     | Under limit<br>5.22 dB at<br>40.800MHz     |
| 3.3                                                                                           | 15.203             | Antenna Requirements                    | Complies     | -                                          |
| <b>Remark:</b> Not required means after assessing, test items are not necessary to carry out. |                    |                                         |              |                                            |



## 1. General Description

### 1.1 Applicant

**Motorola Mobility LLC**

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

### 1.2 Manufacturer

**Motorola Mobility LLC**

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

### 1.3 Product Feature of Equipment Under Test

| Product Feature                 |                                                                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Equipment                       | Mobile Cellular Phone                                                                                                                |
| Brand Name                      | Motorola                                                                                                                             |
| Model Name                      | XT1929-8                                                                                                                             |
| FCC ID                          | IHDT56XE3                                                                                                                            |
| Sample 1                        | EUT with Dual SIM                                                                                                                    |
| Sample 2                        | EUT with Single SIM                                                                                                                  |
| IMEI Code                       | <b>Radiation:</b> IMEI 1: 354105090023010<br>IMEI 2: 354105090023028                                                                 |
| EUT supports Radios application | GSM/EGPRS/WCDMA/HSPA/LTE/GNSS/NFC<br>WLAN 11b/g/n HT20<br>WLAN 11a/n HT20/HT40<br>WLAN 11ac VHT20/VHT40/VHT80<br>Bluetooth BR/EDR/LE |
| HW Version                      | DVT2                                                                                                                                 |
| EUT Stage                       | Identical Prototype                                                                                                                  |

**Remark:**

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. This is a variant report. All the test cases were performed on original report which can be referred to Sporton Report Number FR811821-02D.

| Accessory List  |                                       |
|-----------------|---------------------------------------|
| AC Adapter 1    | Brand Name : Motorola                 |
|                 | Model Name : SC-23 SPN5971A           |
|                 | Manufacturer : Salom                  |
| AC Adapter 2    | Brand Name : Motorola                 |
|                 | Model Name : SC-23 SPN5989A           |
|                 | Manufacturer : Chenyang               |
| AC Adapter 3    | Brand Name : Motorola                 |
|                 | Model Name : SC-24 SPN5972A           |
|                 | Manufacturer : Salom                  |
| AC Adapter 4    | Brand Name : Motorola                 |
|                 | Model Name : SC-24 SPN5990A           |
|                 | Manufacturer : Chenyang               |
| Battery         | Brand Name : Motorola                 |
|                 | Model Name : JS40                     |
|                 | Manufacturer : SUNWODA                |
| Earphone        | Brand Name : Motorola                 |
|                 | Model Name : SH38C16618               |
| C2Audio Cable 1 | Brand Name : Motorola                 |
|                 | Model Name : SC18C27844               |
|                 | Manufacturer : Luxshare               |
| C2Audio Cable 2 | Brand Name : Motorola                 |
|                 | Model Name : SC18C27845               |
|                 | Manufacturer : Cabletech              |
| USB Cable 1     | Brand Name : Cabletech                |
|                 | Model Name : SKN6473A                 |
| USB Cable 2     | Brand Name : FOXLINK                  |
|                 | Model Name : SKN6473A 17195-C 0403532 |
| USB Cable 3     | Brand Name : SAIBAO                   |
|                 | Model Name : SKN6473A 17214-C 1127044 |
| USB Cable 4     | Brand Name : Luxshare                 |
|                 | Model Name : SKN6473A 17227-C 1126538 |

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |                    |
|-----------------------------------------|--------------------|
| Tx/Rx Frequency Range                   | 13.553 ~ 13.567MHz |
| Channel Number                          | 1                  |
| Antenna Type                            | Loop Antenna       |
| Type of Modulation                      | ASK                |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.5 Modification of EUT

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

## 1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

|                    |                                                                                                                                       |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Test Site          | SPORTON INTERNATIONAL INC.                                                                                                            |
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868 / FAX: +886-3-327-0855 |
| Test Site No.      | <b>Sporton Site No.</b>                                                                                                               |
|                    | 03CH11-HY                                                                                                                             |
| Test Engineer      | Hao Hsu and Ken Wu                                                                                                                    |
| Temperature        | 21~25°C                                                                                                                               |
| Relative Humidity  | 52~57%                                                                                                                                |

## 1.7 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
- ♦ ANSI C63.10-2013



## 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.

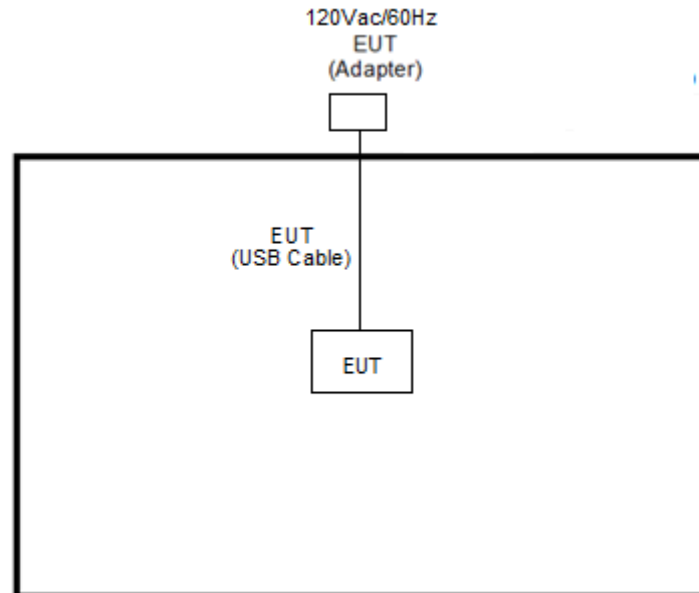
| Test Items                              |                               |
|-----------------------------------------|-------------------------------|
| Field Strength of Fundamental Emissions | Radiated Emissions 30MHz~1GHz |
| Radiated Emissions 9kHz~30MHz           |                               |

**Remark:** For Radiated Test Cases, The tests were performance with AC Adapter 1, USB Cable 1, and Sample 1.

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 (Z plane as worst plane) from all possible combinations.

## 2.2 Connection Diagram of Test System

< For Fundamental Emissions and Mask and Radiated Emissions Measurement >



## 2.3 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 transmit at 13.56MHz and is placed around 2 cm gap to the EUT.

### 3. Test Results

#### 3.1 Field Strength of Fundamental Emissions and Mask Measurement

##### 3.1.1 Limit

| Rules and specifications | FCC CFR 47 Part 15 section 15.225                                 |                                         |                                         |                                        |
|--------------------------|-------------------------------------------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------------|
| Description              | Compliance with the spectrum mask is tested with RBW set to 9kHz. |                                         |                                         |                                        |
| Freq. of Emission (MHz)  | Field Strength<br>( $\mu$ V/m) at 30m                             | Field Strength<br>(dB $\mu$ V/m) at 30m | Field Strength<br>(dB $\mu$ V/m) at 10m | Field Strength<br>(dB $\mu$ V/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                                   |

##### 3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

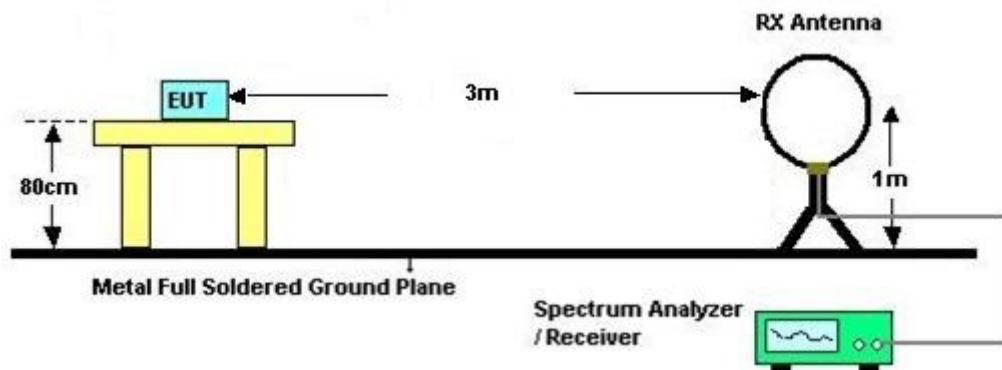
### 3.1.3 Test Procedures

1. 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.
2. 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.
6. Compliance with the spectrum mask is tested with RBW set to 9kHz.

Note: Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m).

### 3.1.4 Test Setup

For radiated emissions below 30MHz



### 3.1.5 Test Result of Field Strength of Fundamental Emissions and Mask

Please refer to Appendix A.

## 3.2 Radiated Emissions Measurement

### 3.2.1 Limit

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

| Frequencies<br>(MHz) | Field Strength<br>( $\mu$ V/m) | Measurement Distance<br>(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                                |

### 3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.2.3 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, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

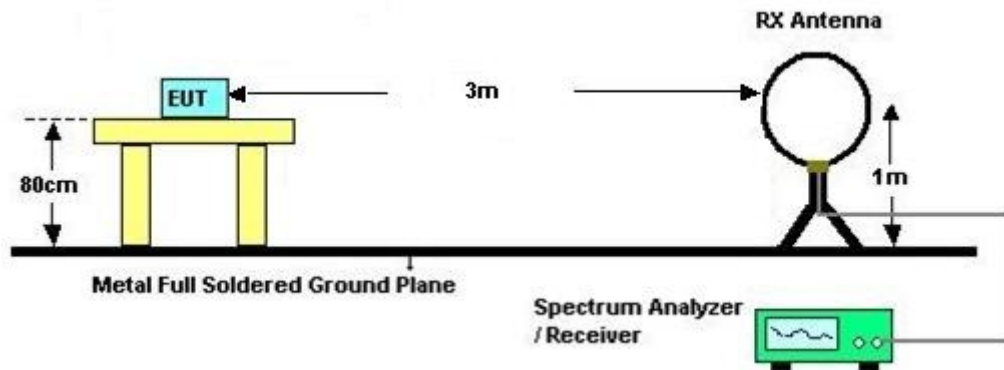


### 3.2.4 Test Procedures

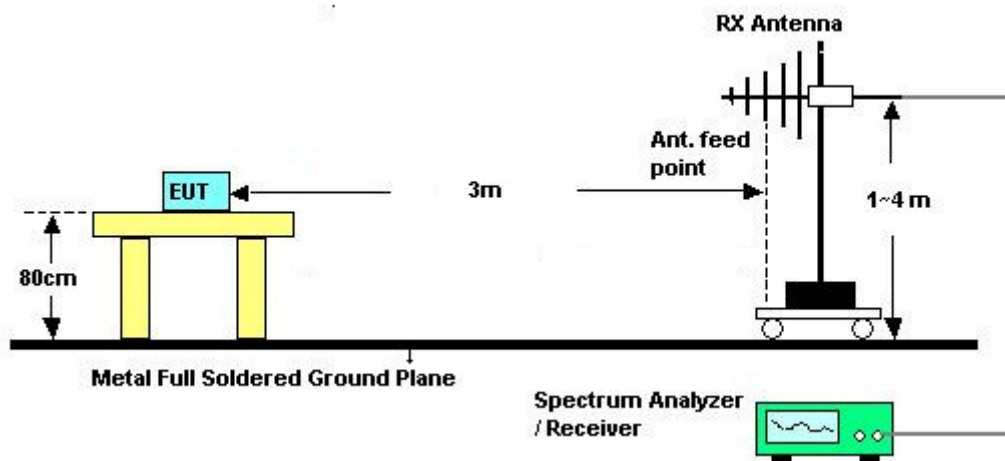
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the 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.
5. 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 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. Antenna Requirements

### 3.2.5 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



### 3.2.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix A.

**Remark:** There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.



### **3.3 Antenna Requirements**

#### **3.3.1 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.

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.

#### **3.3.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.

## 4. List of Measuring Equipment

| Instrument        | Manufacturer         | Model No.        | Serial No.     | Characteristics | Calibration Date | Test Date     | Due Date      | Remark                |
|-------------------|----------------------|------------------|----------------|-----------------|------------------|---------------|---------------|-----------------------|
| EMI Test Receiver | Agilent Technologies | N9038A(MXE )     | MY53290045     | 20MHz~8.4GHz    | Jan. 18, 2018    | Mar. 15, 2018 | Jan. 17, 2019 | Radiation (03CH11-HY) |
| Bilog Antenna     | TESEQ                | CBL 6111D&N-6-06 | 35414&AT-N0602 | 30MHz~1GHz      | Oct. 14, 2017    | Mar. 15, 2018 | Oct. 13, 2018 | Radiation (03CH11-HY) |
| Loop Antenna      | Rohde & Schwarz      | HFH2-Z2          | 100488         | 9 kHz~30 MHz    | Nov. 23, 2017    | Mar. 15, 2018 | Nov. 22, 2019 | Radiation (03CH11-HY) |
| Amplifier         | SONOMA               | 310N             | 187312         | 9kHz~1GHz       | Nov. 10, 2016    | Mar. 15, 2018 | Nov. 09, 2018 | Radiation (03CH11-HY) |
| Spectrum Analyzer | Keysight             | N9010A           | MY54200486     | 10Hz ~ 44GHz    | Oct. 19, 2017    | Mar. 15, 2018 | Oct. 18, 2018 | Radiation (03CH11-HY) |
| Antenna Mast      | EMEC                 | AM-BS-4500-B     | N/A            | 1~4m            | N/A              | Mar. 15, 2018 | N/A           | Radiation (03CH11-HY) |
| Turn Table        | EMEC                 | TT 2000          | N/A            | 0~360 Degree    | N/A              | Mar. 15, 2018 | N/A           | Radiation (03CH11-HY) |



## 5. Uncertainty of Evaluation

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

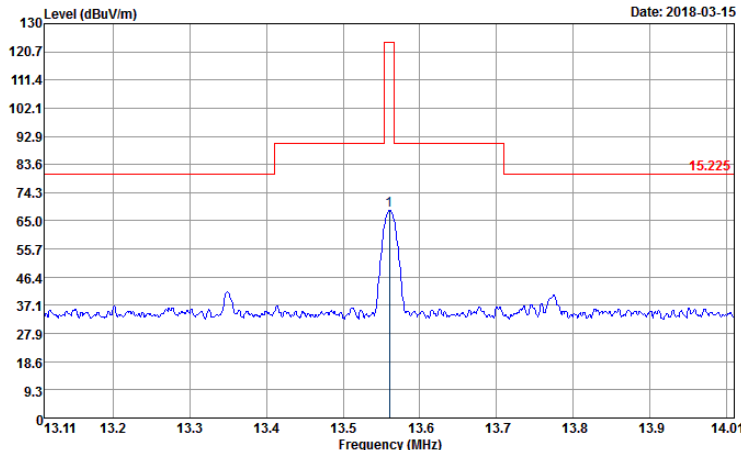
|                                                                             |      |
|-----------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2U_c(y)$ ) | 3.45 |
|-----------------------------------------------------------------------------|------|

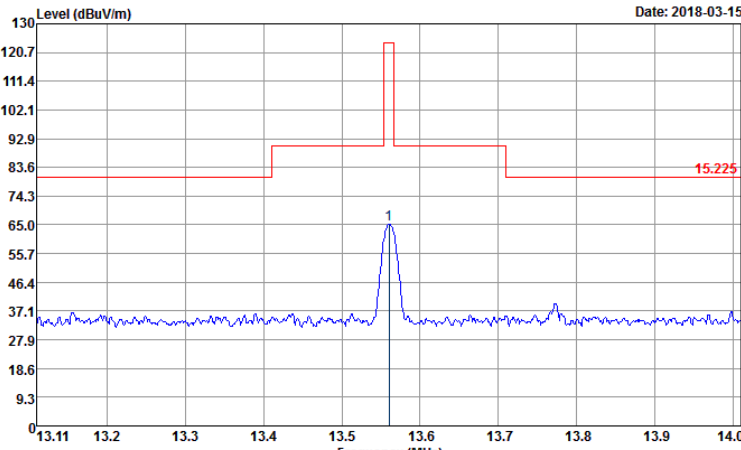
### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

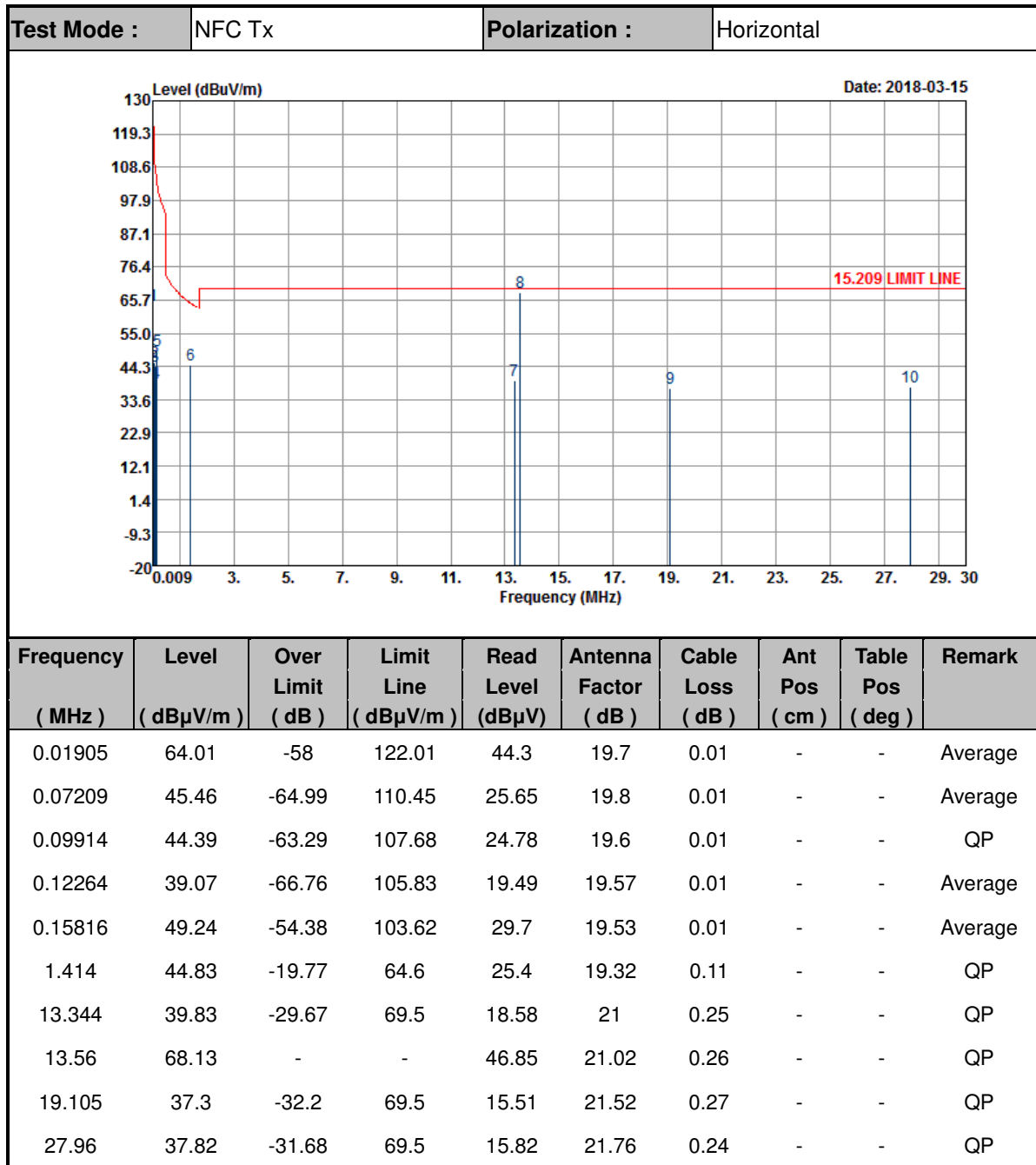
|                                                                             |      |
|-----------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2U_c(y)$ ) | 5.20 |
|-----------------------------------------------------------------------------|------|

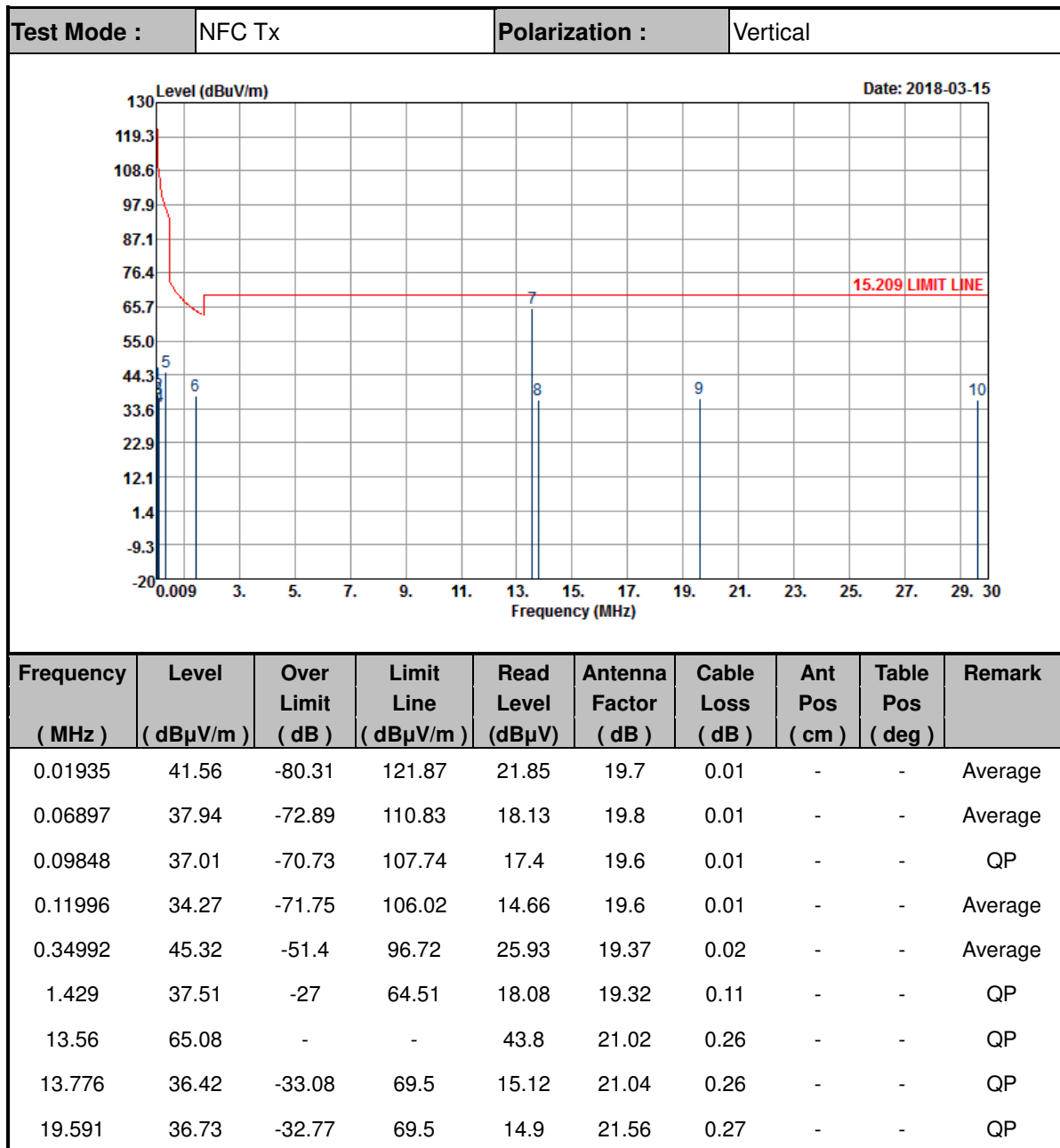
## Appendix A. Test Results of Radiated Test Items

### A1. Test Result of Field Strength of Fundamental Emissions

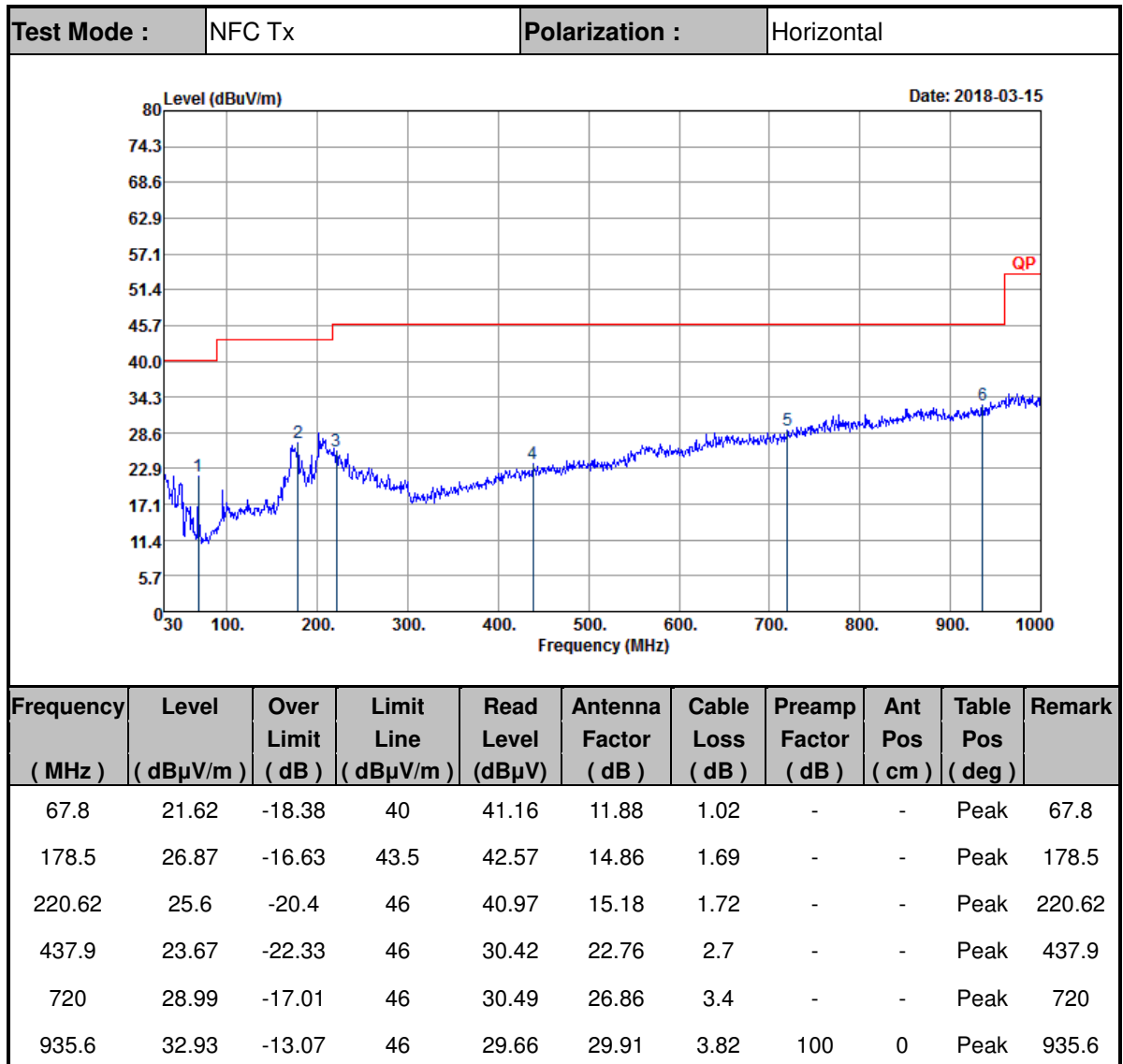
| Test Mode :                                                                        |       | NFC Tx                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | Test Frequency (MHz) |             | 13.56 |       |       |        |  |      |       |      |       |             |       |       |       |        |  |     |        |    |        |      |      |    |    |     |   |       |       |        |        |       |       |      |     |        |
|------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------|-------------|-------|-------|-------|--------|--|------|-------|------|-------|-------------|-------|-------|-------|--------|--|-----|--------|----|--------|------|------|----|----|-----|---|-------|-------|--------|--------|-------|-------|------|-----|--------|
|  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | Date: 2018-03-15     |             |       |       |       |        |  |      |       |      |       |             |       |       |       |        |  |     |        |    |        |      |      |    |    |     |   |       |       |        |        |       |       |      |     |        |
| Site                                                                               |       | : 03CH11-HY                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                      |             |       |       |       |        |  |      |       |      |       |             |       |       |       |        |  |     |        |    |        |      |      |    |    |     |   |       |       |        |        |       |       |      |     |        |
| Condition                                                                          |       | : 15.225 3m LOOP_ANT(H) HORIZONTAL                                                                                                                                                                                                                                                                                                                                                                                                                       |        |                      |             |       |       |       |        |  |      |       |      |       |             |       |       |       |        |  |     |        |    |        |      |      |    |    |     |   |       |       |        |        |       |       |      |     |        |
|                                                                                    |       | : RBW:9.000KHz VBW:9.000KHz SWT:Auto                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                      |             |       |       |       |        |  |      |       |      |       |             |       |       |       |        |  |     |        |    |        |      |      |    |    |     |   |       |       |        |        |       |       |      |     |        |
| Project                                                                            |       | : 811821-07                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                      |             |       |       |       |        |  |      |       |      |       |             |       |       |       |        |  |     |        |    |        |      |      |    |    |     |   |       |       |        |        |       |       |      |     |        |
|                                                                                    |       | <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>13.56</td><td>68.39</td><td>-55.61</td><td>124.00</td><td>47.11</td><td>21.02</td><td>0.26</td><td>100</td><td>358 QP</td></tr></table> |        |                      |             |       |       |       |        |  | Freq | Level | Over | Limit | ReadAntenna | Cable | A/Pos | T/Pos | Remark |  | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | cm | deg | 1 | 13.56 | 68.39 | -55.61 | 124.00 | 47.11 | 21.02 | 0.26 | 100 | 358 QP |
|                                                                                    | Freq  | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Over   | Limit                | ReadAntenna | Cable | A/Pos | T/Pos | Remark |  |      |       |      |       |             |       |       |       |        |  |     |        |    |        |      |      |    |    |     |   |       |       |        |        |       |       |      |     |        |
|                                                                                    | MHz   | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                   | dB     | dBuV/m               | dBuV        | dB/m  | dB    | cm    | deg    |  |      |       |      |       |             |       |       |       |        |  |     |        |    |        |      |      |    |    |     |   |       |       |        |        |       |       |      |     |        |
| 1                                                                                  | 13.56 | 68.39                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -55.61 | 124.00               | 47.11       | 21.02 | 0.26  | 100   | 358 QP |  |      |       |      |       |             |       |       |       |        |  |     |        |    |        |      |      |    |    |     |   |       |       |        |        |       |       |      |     |        |

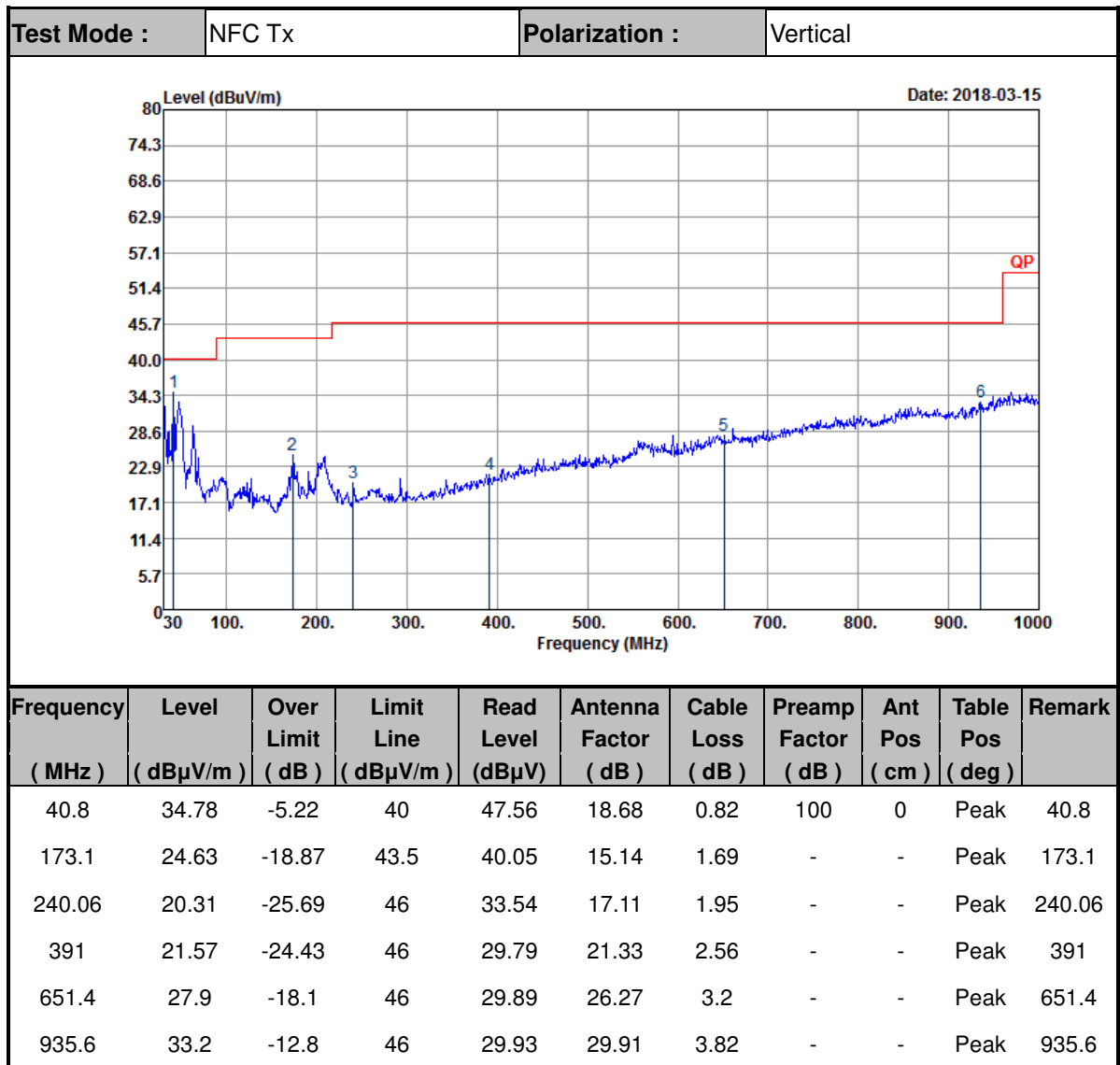
|  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | Date: 2018-03-15 |             |       |       |       |        |  |      |       |      |       |             |       |       |       |        |  |     |        |    |        |      |      |    |    |     |   |       |       |        |        |       |       |      |     |       |
|--------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------|-------------|-------|-------|-------|--------|--|------|-------|------|-------|-------------|-------|-------|-------|--------|--|-----|--------|----|--------|------|------|----|----|-----|---|-------|-------|--------|--------|-------|-------|------|-----|-------|
| Site                                                                                 |       | : 03CH11-HY                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                  |             |       |       |       |        |  |      |       |      |       |             |       |       |       |        |  |     |        |    |        |      |      |    |    |     |   |       |       |        |        |       |       |      |     |       |
| Condition                                                                            |       | : 15.225 3m LOOP_ANT(V) VERTICAL                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                  |             |       |       |       |        |  |      |       |      |       |             |       |       |       |        |  |     |        |    |        |      |      |    |    |     |   |       |       |        |        |       |       |      |     |       |
|                                                                                      |       | : RBW:9.000KHz VBW:9.000KHz SWT:Auto                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                  |             |       |       |       |        |  |      |       |      |       |             |       |       |       |        |  |     |        |    |        |      |      |    |    |     |   |       |       |        |        |       |       |      |     |       |
| Project                                                                              |       | : 811821-07                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                  |             |       |       |       |        |  |      |       |      |       |             |       |       |       |        |  |     |        |    |        |      |      |    |    |     |   |       |       |        |        |       |       |      |     |       |
|                                                                                      |       | <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>13.56</td><td>65.28</td><td>-58.72</td><td>124.00</td><td>44.00</td><td>21.02</td><td>0.26</td><td>100</td><td>93 QP</td></tr></table> |        |                  |             |       |       |       |        |  | Freq | Level | Over | Limit | ReadAntenna | Cable | A/Pos | T/Pos | Remark |  | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | cm | deg | 1 | 13.56 | 65.28 | -58.72 | 124.00 | 44.00 | 21.02 | 0.26 | 100 | 93 QP |
|                                                                                      | Freq  | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Over   | Limit            | ReadAntenna | Cable | A/Pos | T/Pos | Remark |  |      |       |      |       |             |       |       |       |        |  |     |        |    |        |      |      |    |    |     |   |       |       |        |        |       |       |      |     |       |
|                                                                                      | MHz   | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                  | dB     | dBuV/m           | dBuV        | dB/m  | dB    | cm    | deg    |  |      |       |      |       |             |       |       |       |        |  |     |        |    |        |      |      |    |    |     |   |       |       |        |        |       |       |      |     |       |
| 1                                                                                    | 13.56 | 65.28                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -58.72 | 124.00           | 44.00       | 21.02 | 0.26  | 100   | 93 QP  |  |      |       |      |       |             |       |       |       |        |  |     |        |    |        |      |      |    |    |     |   |       |       |        |        |       |       |      |     |       |

**A2. Results of Radiated Spurious Emissions (9 kHz~30MHz)**



**Note:**

1. 13.56 MHz is fundamental signal which can be ignored.
2. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
3. Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB);
4. Limit line = specific limits (dBμV) + distance extrapolation factor.

**A3. Results of Radiated Spurious Emissions (30MHz~1GHz)**



**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 (dBμV/m) = 20 log Emission level (μV/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.