



# FCC RADIO TEST REPORT

**FCC ID** : B32C6803GBTWN  
**Equipment** : Point of Sales Terminal  
**Brand Name** : Verifone  
**Model Name** : C680 3G-BT-WiFi  
**Applicant** : Verifone, Inc.  
1400 West Stanford Ranch Road,  
Suite 200, Rocklin CA 95765 USA  
**Manufacturer** : Verifone, Inc.  
**Standard** : FCC Part 15 Subpart C §15.225

The product was received on Jan. 20, 2020 and testing was started from Aug. 13, 2020 and completed on Aug. 14, 2020. 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 variant 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, Taiwan (R.O.C.)



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### History of this test report

| Report No.   | Version | Description   | Issued Date   |
|--------------|---------|---|---------------|
| FR692114-08D | 01      | Initial issue of report   | Aug. 20, 2020 |
| FR692114-08D | 02      | Remove conducted test data and add original report information. | Sep. 03, 2020 |
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### Summary of Test Result

| Report Clause | Ref Std. Clause     | Test Items                              | Result (PASS/FAIL) | Remark                               |
|---------------|---------------------|---|--------------------|--------------------------------------|
| -             | 15.207              | AC Power Line Conducted Emissions       | Not Required       | -                                    |
| -             | 15.215(c)           | 20dB Spectrum Bandwidth                 | Not Required       | -                                    |
|               | 2.1049              | 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 | Pass               | Max level 42.44 dBµV/m at 13.560 MHz |
| 3.2           | 15.225(d)<br>15.209 | Radiated Spurious Emissions             | Pass               | Under limit 6.04 dB at 133.410MHz    |
| 3.3           | 15.203              | Antenna Requirements                    | Pass               | -                                    |

**Note:**

1. Not required means after assessing, test items are not necessary to carry out.
2. This is a variant report by revising WLAN antenna and source. All the test cases were performed on original report which can be referred to Sporton Report Number FR692114D as appendix C. Based on the original report, the test cases were verified.

|  |
|--|
| <b>Declaration of Conformity:</b>  |
| The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.   |
| <b>Comments and Explanations:</b>  |
| 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: Wii Chang**

**Report Producer: Cindy Liu**



# 1. General Description

## 1.1 Product Feature of Equipment Under Test

GSM/WCDMA, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n, and RFID.

| Product Feature |  |
|-----------------|--|
| Antenna Type    | WWAN: PCB Antenna<br>WLAN: PIFA Antenna<br>Bluetooth: PIFA Antenna<br>RFID: Bobbin Antenna |

| Specification of Accessory |              |  |
|----------------------------|--------------|--|
| AC Adapter                 | Brand Name   | Verifone, Inc.   |
|                            | Manufacturer | PHIHONG  |
|                            | Model Name   | AM11A-050A   |
|                            | Power Rating | Input:100-240Vac, 50-60Hz 0.5A<br>Output: 5.0V DC 2.2A |
|                            | Power Cord   | 1.8 meter, non-shielded cable, without ferrite core    |
| Battery                    | Brand Name   | Verifone, Inc.   |
|                            | Model Name   | BPK260-001   |

## 1.2 Modification of EUT

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



### 1.3 Testing Location

|                    |   |
|--------------------|---|
| Test Site          | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory   |
| Test Site Location | No.52, Huaya 1st Rd., Guishan Dist.,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |
| Test Site No.      | <b>Sporton Site No.</b><br>03CH07-HY  |
| Test Engineer      | Stan Hsieh  |
| Temperature        | 20~23°C   |
| Relative Humidity  | 52~56%  |

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

FCC designation No.: TW1190

### 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.

## 2. Test Configuration of Equipment Under Test

### 2.1 Descriptions of Test Mode

Investigation has been done on all the possible configurations.

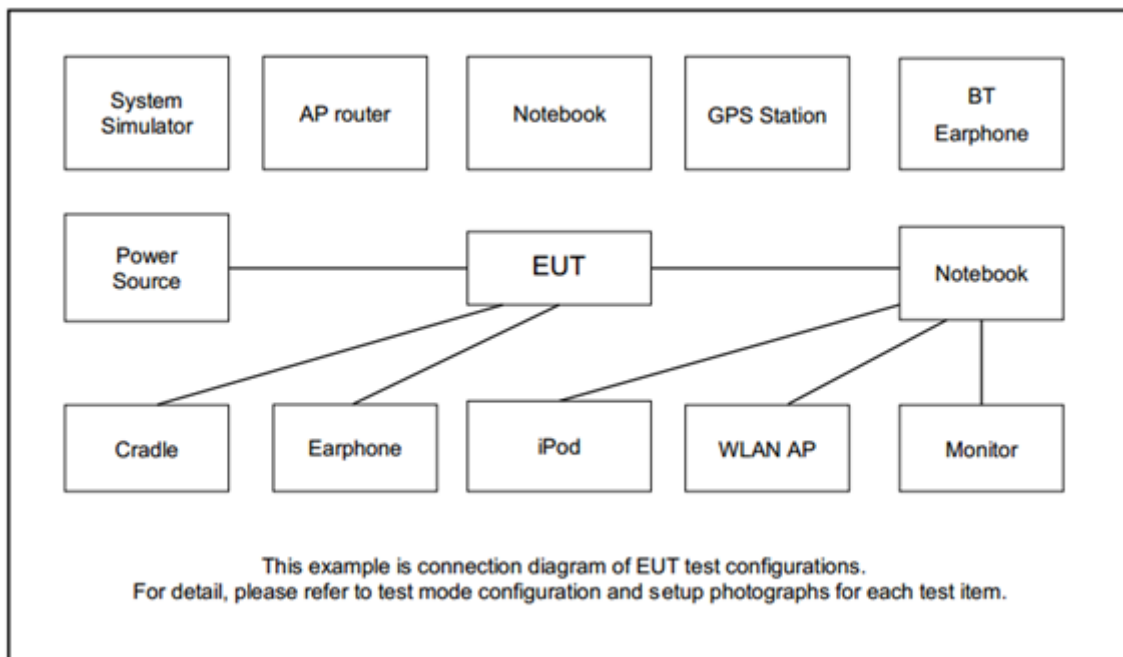
The following table is a list of the test modes shown in this test report.

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

The EUT pre-scanned in Two NFC type, A, B. The worst type (type B) 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.

### 2.2 Connection Diagram of Test System



### 2.3 EUT Operation Test Setup

The RF test items, make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.



### 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.

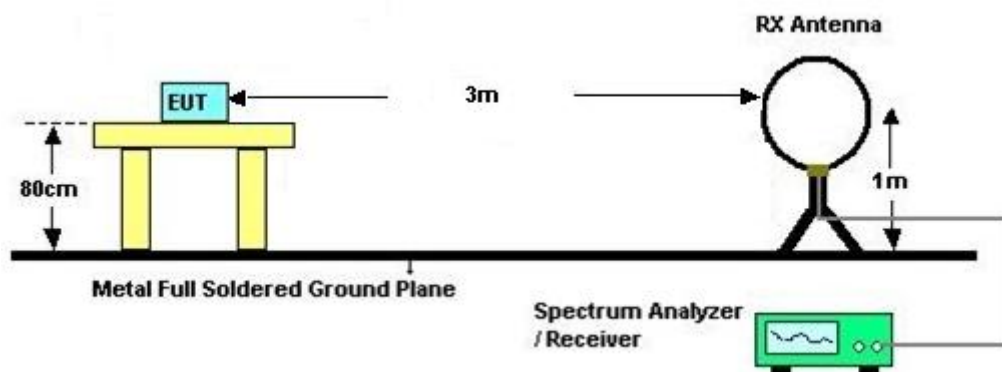


### 3.1.3 Test Procedures

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 B.



### 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 (MHz) | Field Strength (µV/m) | Measurement Distance (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 and 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

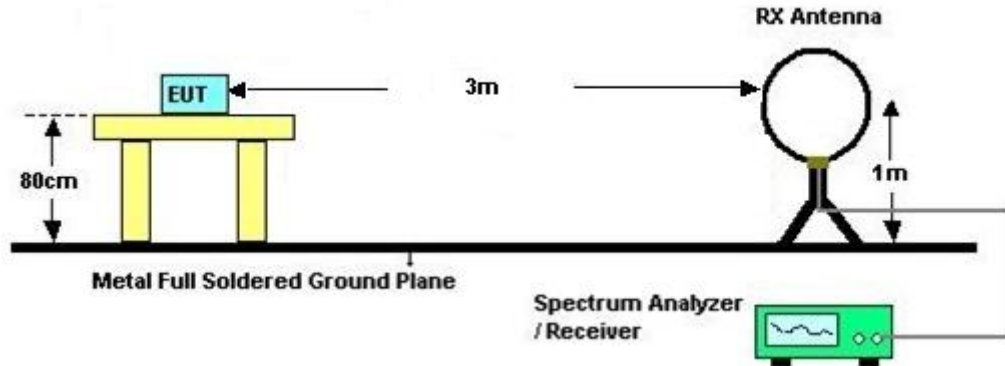


### 3.2.4 Test Procedures

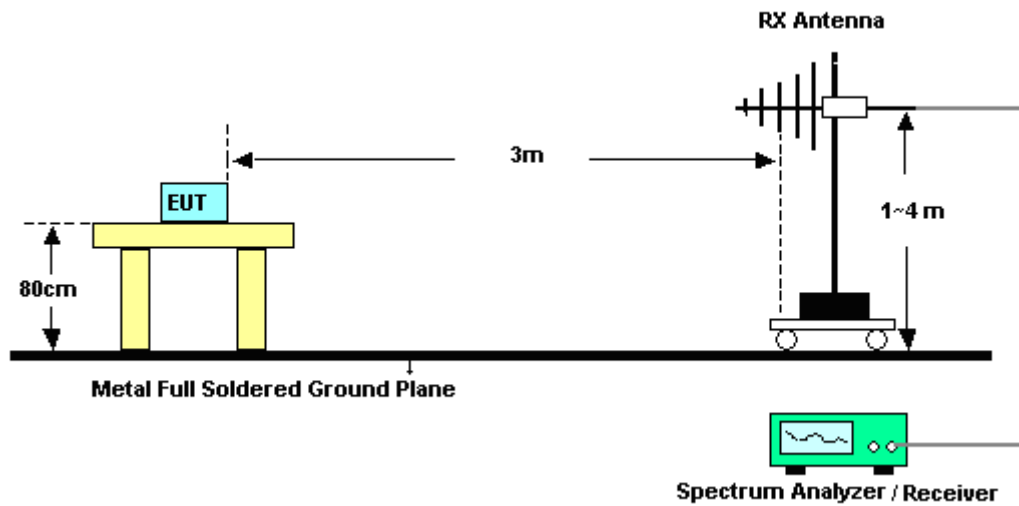
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting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

### 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 B.

**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.



### **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                |
|---------------------|-----------------|----------------------------|---------------------------------|--------------------|------------------|------------------------------|---------------|-----------------------|
| AC Power Source     | AC POWER        | AFC-500W                   | F104070011                      | 50Hz~60Hz          | Apr. 09, 2020    | Aug. 14, 2020                | Apr. 08, 2021 | Conducted (TH03-HY)   |
| Hygrometer          | Testo           | 608-H1                     | 34893241                        | N/A                | Mar. 26, 2020    | Aug. 14, 2020                | Mar. 25, 2021 | Conducted (TH03-HY)   |
| Spectrum Analyzer   | Rohde & Schwarz | FSP30                      | 101329                          | 9kHz~30GHz         | Sep. 04, 2019    | Aug. 14, 2020                | Sep. 03, 2020 | Conducted (TH03-HY)   |
| Temperature Chamber | ESPEC           | SU-641                     | 92013721                        | -30°C ~70°C        | Nov. 26, 2019    | Aug. 14, 2020                | Nov. 25, 2020 | Conducted (TH03-HY)   |
| Bilog Antenna       | TESEQ           | CBL 6111D & 00800N1D01N-06 | 35419 & 03                      | 30MHz~1GHz         | Apr. 29, 2020    | Aug. 13, 2020~ Aug. 14, 2020 | Apr. 28, 2021 | Radiation (03CH07-HY) |
| EMI Test Receiver   | Agilent         | N9038A(MXE)                | MY53290053                      | 20Hz~26.5GHz       | May 21, 2020     | Aug. 13, 2020~ Aug. 14, 2020 | May 20, 2021  | Radiation (03CH07-HY) |
| Loop Antenna        | Rohde & Schwarz | HFH2-Z2                    | 100315                          | 9 kHz~30 MHz       | Dec. 26, 2019    | Aug. 13, 2020~ Aug. 14, 2020 | Dec. 25, 2020 | Radiation (03CH07-HY) |
| Preamplifier        | COM-POWER       | PA-103A                    | 161241                          | 10MHz~1GHz         | May 19, 2020     | Aug. 13, 2020~ Aug. 14, 2020 | May 18, 2021  | Radiation (03CH07-HY) |
| RF Cable            | HUBER + SUHNER  | SUCOFLEX 104               | MY24971/4, MY28655/4            | 9kHz~30MHz         | Feb. 25, 2020    | Aug. 13, 2020~ Aug. 14, 2020 | Feb. 24, 2021 | Radiation (03CH07-HY) |
| RF Cable            | HUBER + SUHNER  | SUCOFLEX 104               | MY28655/4, MY24971/4, MY15682/4 | 30MHz~1GHz         | Feb. 25, 2020    | Aug. 13, 2020~ Aug. 14, 2020 | Feb. 24, 2021 | Radiation (03CH07-HY) |
| Controller          | ChainTek        | Chaintek 3000              | N/A                             | Control Turn table | N/A              | Aug. 13, 2020~ Aug. 14, 2020 | N/A           | Radiation (03CH07-HY) |
| Controller          | Max-Full        | MF7802                     | MF780208368                     | Control Ant Mast   | N/A              | Aug. 13, 2020~ Aug. 14, 2020 | N/A           | Radiation (03CH07-HY) |
| Antenna Mast        | Max-Full        | MFA520BS                   | N/A                             | 1m~4m              | N/A              | Aug. 13, 2020~ Aug. 14, 2020 | N/A           | Radiation (03CH07-HY) |
| Turn Table          | ChainTek        | Chaintek 3000              | N/A                             | 0~360 Degree       | N/A              | Aug. 13, 2020~ Aug. 14, 2020 | N/A           | Radiation (03CH07-HY) |
| Software            | Audix           | E3 6.2009-8-24             | N/A                             | N/A                | N/A              | Aug. 13, 2020~ Aug. 14, 2020 | N/A           | Radiation (03CH07-HY) |
| USB Data Logger     | TECPEL          | TR-32                      | HE17XB2495                      | N/A                | N/A              | Aug. 13, 2020~ Aug. 14, 2020 | N/A           | Radiation (03CH07-HY) |



## 5. Uncertainty of Evaluation

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

|   |     |
|---|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.9 |
|---|-----|

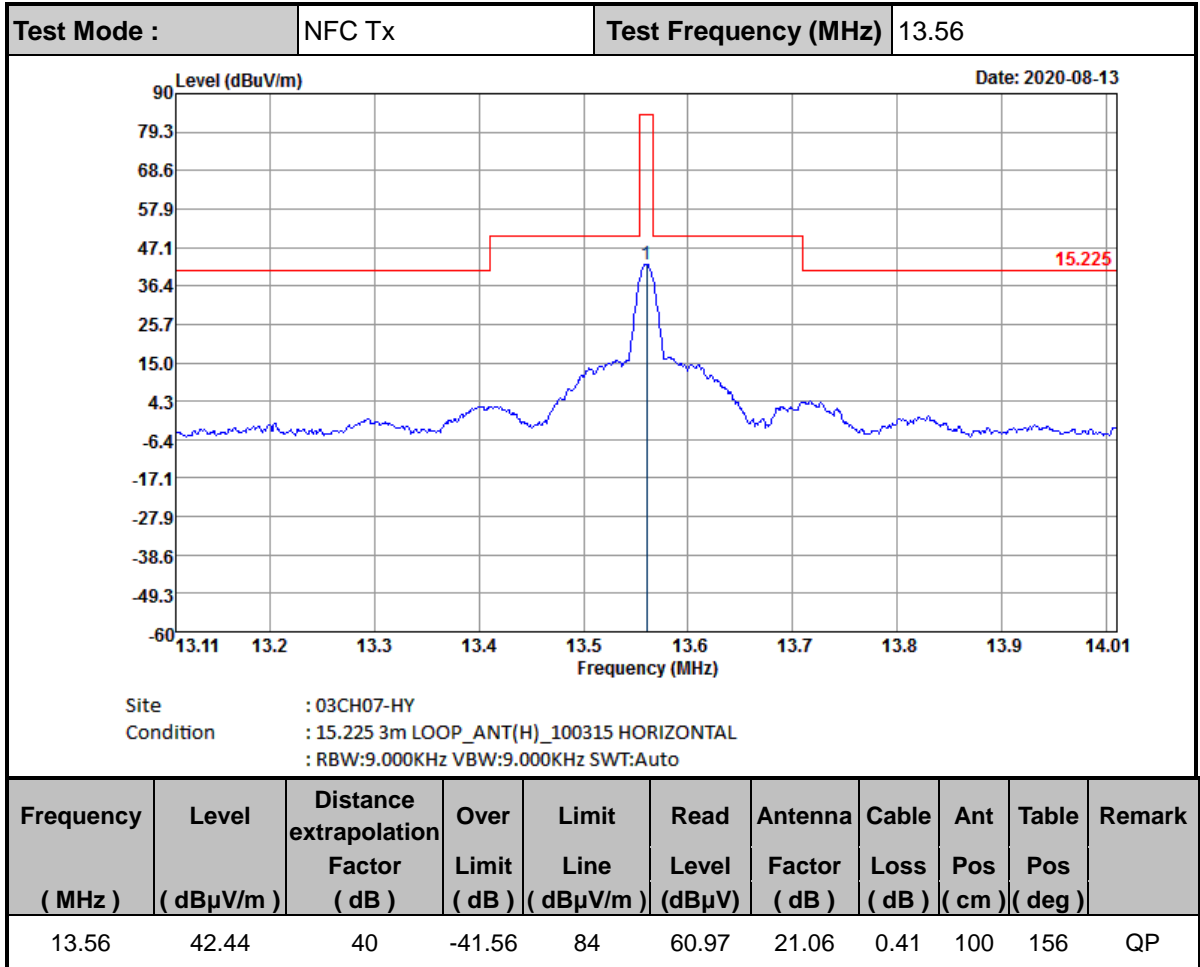
### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|   |     |
|---|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.7 |
|---|-----|

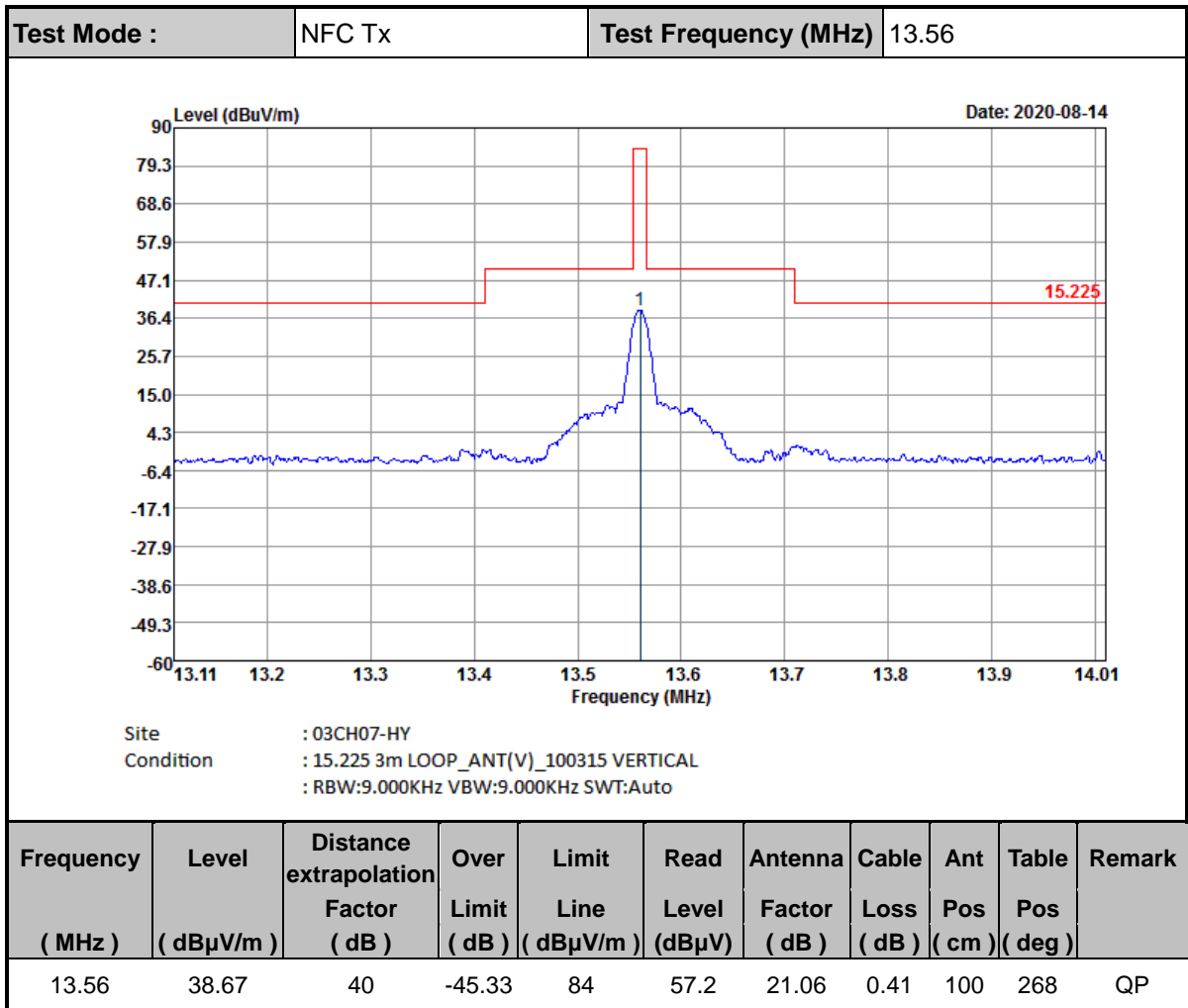


## Appendix A. Test Results of Radiated Test Items

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

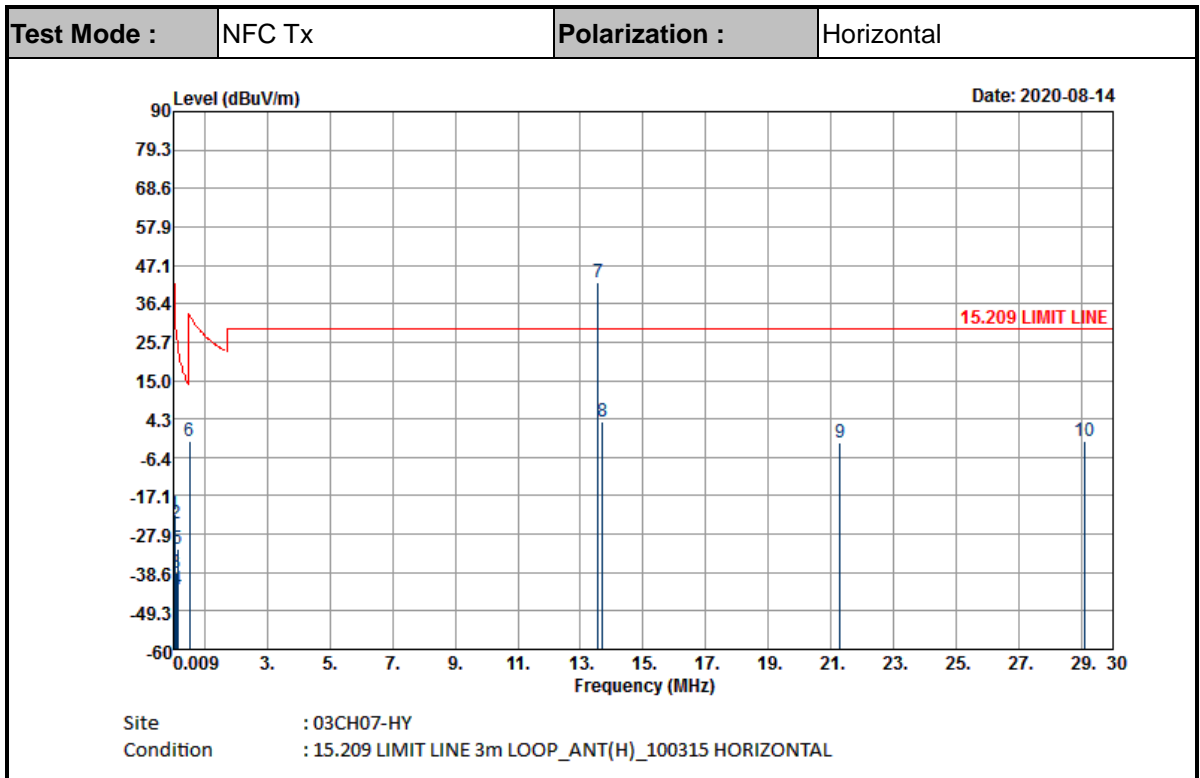








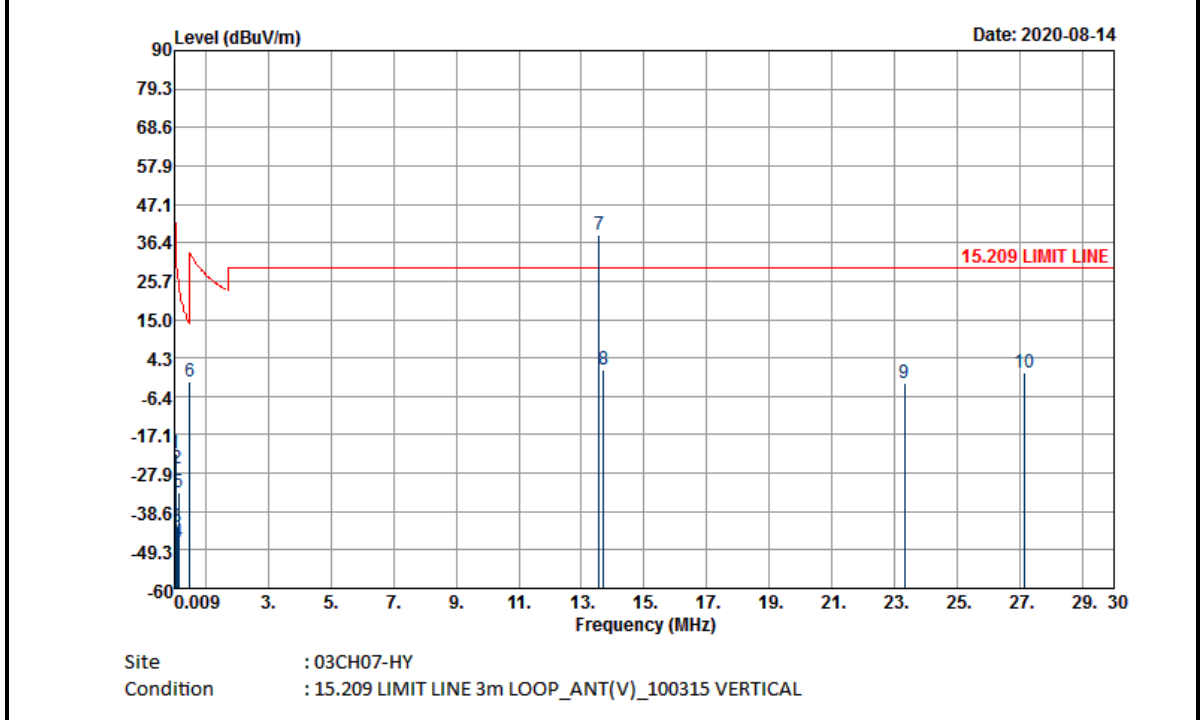
A2. Results of Radiated Spurious Emissions (9 kHz~30MHz)



| Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Distance<br>extrapolation<br>Factor<br>( dB ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|---|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------|-------------------------|---------|
| 0.03435              | -22.25              | 80  | -59.14                  | 36.89                       | 38.12                     | 19.5                        | 0.13                    | -                    | -                       | Average |
| 0.07011              | -24.73              | 80  | -55.42                  | 30.69                       | 36.12                     | 19                          | 0.15                    | -                    | -                       | Average |
| 0.0997               | -38.69              | 80  | -66.32                  | 27.63                       | 22.64                     | 18.5                        | 0.17                    | -                    | -                       | QP      |
| 0.134                | -43.21              | 80  | -68.27                  | 25.06                       | 18.01                     | 18.59                       | 0.19                    | -                    | -                       | Average |
| 0.15136              | -32.05              | 80  | -56.05                  | 24                          | 29.08                     | 18.67                       | 0.2                     | -                    | -                       | Average |
| 0.51253              | -1.85               | 40  | -35.26                  | 33.41                       | 18.63                     | 19.19                       | 0.33                    | -                    | -                       | QP      |
| 13.56                | 42.44               | 40  | 12.94                   | 29.5                        | 60.97                     | 21.06                       | 0.41                    | -                    | -                       | QP      |
| 13.712               | 3.49                | 40  | -26.01                  | 29.5                        | 22.01                     | 21.07                       | 0.41                    | 100                  | 0                       | QP      |
| 21.292               | -2.51               | 40  | -32.01                  | 29.5                        | 15.3                      | 21.8                        | 0.39                    | -                    | -                       | QP      |
| 29.08                | -2.06               | 40  | -31.56                  | 29.5                        | 14.67                     | 22.43                       | 0.84                    | -                    | -                       | QP      |



|             |        |                |          |
|-------------|--------|----------------|----------|
| Test Mode : | NFC Tx | Polarization : | Vertical |
|-------------|--------|----------------|----------|



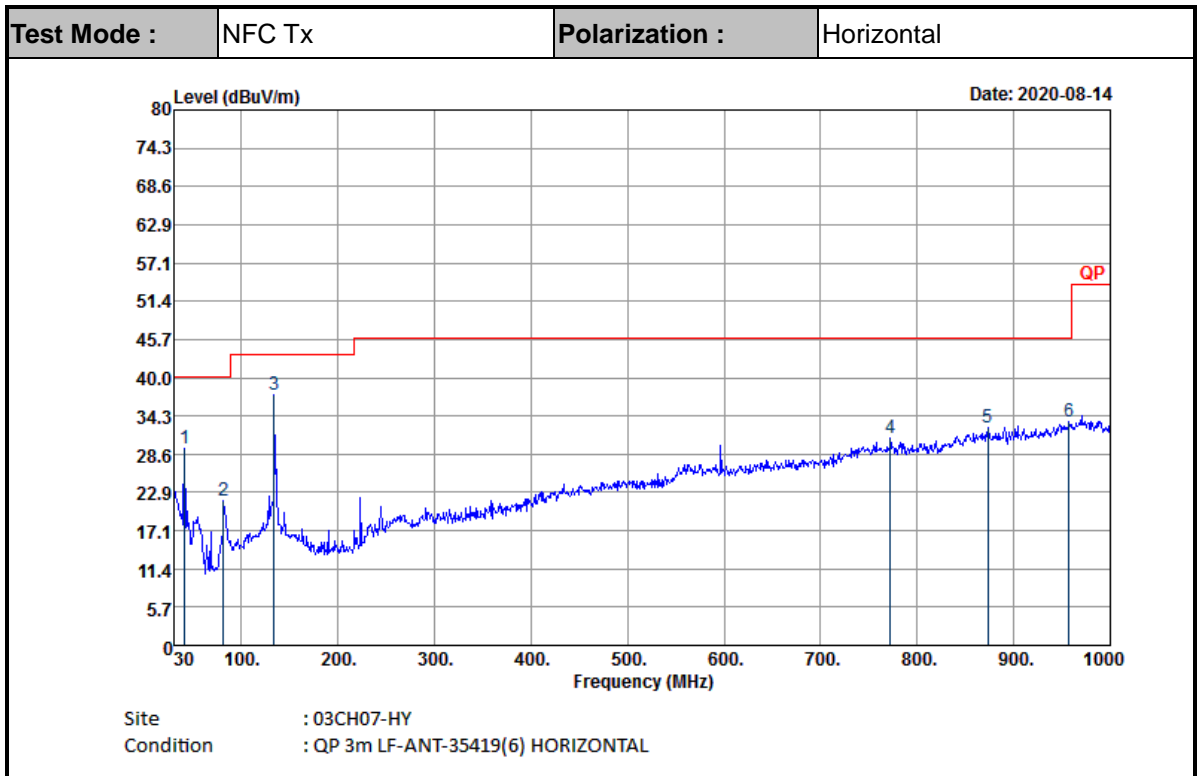
| Frequency ( MHz ) | Level ( dBμV/m ) | Distance extrapolation Factor ( dB ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level ( dBμV ) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark  |
|-------------------|------------------|--------------------------------------|-------------------|-----------------------|---------------------|-----------------------|-------------------|----------------|-------------------|---------|
| 0.05026           | -22.49           | 80                                   | -56.07            | 33.58                 | 37.87               | 19.5                  | 0.14              | -              | -                 | Average |
| 0.07134           | -26.67           | 80                                   | -57.21            | 30.54                 | 34.18               | 19                    | 0.15              | -              | -                 | Average |
| 0.0988            | -43.03           | 80                                   | -70.74            | 27.71                 | 18.3                | 18.5                  | 0.17              | -              | -                 | QP      |
| 0.13608           | -46.92           | 80                                   | -71.85            | 24.93                 | 14.3                | 18.59                 | 0.19              | -              | -                 | Average |
| 0.15102           | -33.14           | 80                                   | -57.16            | 24.02                 | 27.99               | 18.67                 | 0.2               | -              | -                 | Average |
| 0.50502           | -2.37            | 40                                   | -35.91            | 33.54                 | 18.11               | 19.19                 | 0.33              | -              | -                 | QP      |
| 13.56             | 38.67            | 40                                   | 9.17              | 29.5                  | 57.2                | 21.06                 | 0.41              | -              | -                 | QP      |
| 13.712            | 0.89             | 40                                   | -28.61            | 29.5                  | 19.41               | 21.07                 | 0.41              | 100            | 0                 | QP      |
| 23.308            | -2.75            | 40                                   | -32.25            | 29.5                  | 14.88               | 21.96                 | 0.41              | -              | -                 | QP      |
| 27.12             | 0.19             | 40                                   | -29.31            | 29.5                  | 17.28               | 22.27                 | 0.64              | -              | -                 | QP      |

**Note:**

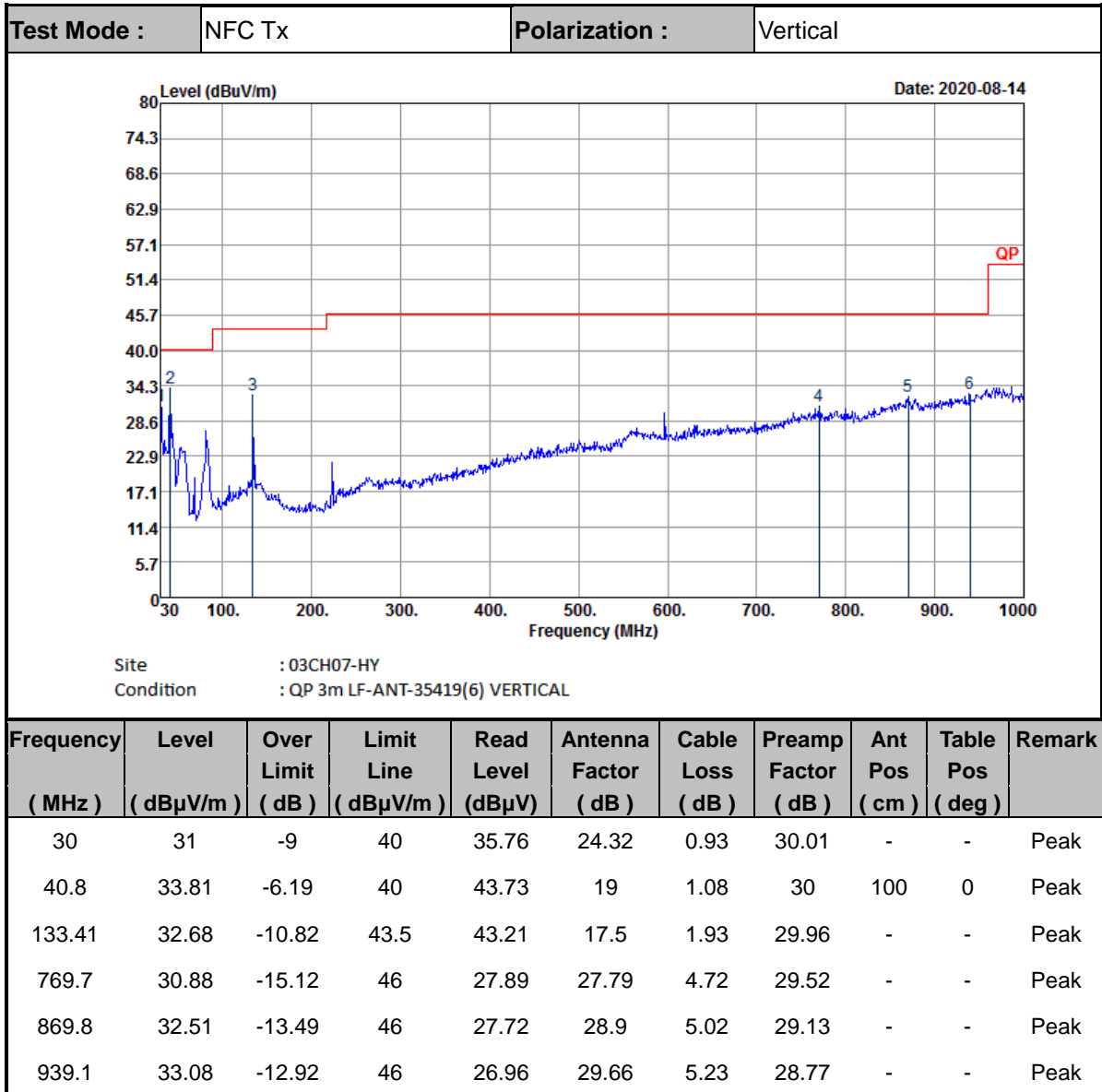
1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
3. Limit line = specific limits (dBμV) + distance extrapolation factor
4. 13.56 MHz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



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



| Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark |
|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|--------|
| 40.8                 | 29.32                     | -10.68                  | 40                                | 39.24                           | 19                          | 1.08                    | 30                         | -                    | -                       | Peak   |
| 81.3                 | 21.58                     | -18.42                  | 40                                | 36.59                           | 13.46                       | 1.51                    | 29.98                      | -                    | -                       | Peak   |
| 133.41               | 37.46                     | -6.04                   | 43.5                              | 47.99                           | 17.5                        | 1.93                    | 29.96                      | 100                  | 0                       | Peak   |
| 771.8                | 30.9                      | -15.1                   | 46                                | 27.95                           | 27.73                       | 4.73                    | 29.51                      | -                    | -                       | Peak   |
| 873.3                | 32.51                     | -13.49                  | 46                                | 27.74                           | 28.85                       | 5.03                    | 29.11                      | -                    | -                       | Peak   |
| 957.3                | 33.35                     | -12.65                  | 46                                | 26.26                           | 30.47                       | 5.28                    | 28.66                      | -                    | -                       | Peak   |



**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.