

# FCC/IC TEST REPORT

Job No. : GPWE2306000105EC  
Applicant : LG Electronics USA  
Equipment Under Test (EUT) :  
Product Name : VR Gen3.1 module  
Model Name : LVRF-001  
FCC Authorization Type : Certification  
Applied Standards : FCC Part 15 Subpart B, Class B  
ICES-003 Issue 7:2020  
FCC ID : BEJ-LVRF001  
IC Certification : 2703N-LVRF001  
Date of Receipt : June 15, 2023  
Date of Test : July 7, 2023  
Date of Issue : August 8, 2023  
Test Results : Complied

Tested by :



Lucas Ku

Reviewed by :



Julia Choi

**This test report does not assure KOLAS accreditation.**

- 1) The results of this test report are effective only to the items tested.
- 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.

**Remarks :**

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm).  
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full.

## Contents

|                                             |    |
|---------------------------------------------|----|
| 1. General Information.....                 | 4  |
| 1.1 Client Information.....                 | 4  |
| 1.2 Test Laboratory.....                    | 4  |
| 1.3 General Information of E.U.T. ....      | 4  |
| 1.4 Operating Modes and Conditions.....     | 4  |
| 1.5 Peripheral Equipments.....              | 4  |
| 1.6 Cable List.....                         | 5  |
| 1.7 System Configurations.....              | 5  |
| 1.8 Test System Layout .....                | 5  |
| 1.9 Modifications/Notes.....                | 5  |
| 1.10 Applicable Standards for Testing ..... | 5  |
| 1.11 Summary of Test Results.....           | 5  |
| 2. Emission Test.....                       | 6  |
| 2.1 Test Results.....                       | 6  |
| 2.2 Test Method and Limits.....             | 6  |
| 2.2.1 Test Method .....                     | 6  |
| 2.2.2 Test Limits.....                      | 6  |
| 2.3 Radiated Emission .....                 | 8  |
| 2.3.1 Test Equipments .....                 | 8  |
| 2.3.2 Test Site.....                        | 8  |
| 2.3.3 Environment Conditions .....          | 8  |
| 2.3.4 Test Results .....                    | 9  |
| Appendix A : Measurement Uncertainty .....  | 27 |

## Revision History

| Revision | Report number        | Description |
|----------|----------------------|-------------|
| 0        | F690501-RF-EMC001582 | Initial     |
| 1        |                      |             |

## 1. General Information

### 1.1 Client Information

|                      |                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------|
| Applicant            | LG Electronics USA                                                                              |
| Applicant Address    | 111 Sylvan Avenue North Building Englewood Cliffs, NJ 07632                                     |
| Manufacturer         | LG Electronics Inc.                                                                             |
| Manufacturer Address | 170, Seongsanpaechong-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, 51533, Republic of Korea. |

### 1.2 Test Laboratory

|                      |                                                                                        |
|----------------------|----------------------------------------------------------------------------------------|
| Name and Address     | SGS Korea Co., Ltd.                                                                    |
| - Giheung Laboratory | 35, Giheungdanji-ro 121beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea |
| - Gunpo Laboratory   | 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, 15807, Republic of Korea                  |
| - Dongtan Laboratory | 12, Dongtansandan 10-gil, Hwaseong-si, Gyeonggi-do, 18487, Republic of Korea           |
| FCC Registration No. | KR0150                                                                                 |
| IC Registration No.  | 7837B                                                                                  |
| Phone                | + 82 31 548 0710                                                                       |
| Fax                  | + 82 31 548 0719                                                                       |
| e-mail               | <a href="mailto:julia.choi@sgs.com">julia.choi@sgs.com</a>                             |

### 1.3 General Information of E.U.T.

| Classification           | Specification                          |
|--------------------------|----------------------------------------|
| Product Name             | VR Gen3.1 module                       |
| Model Name               | LVRF-001                               |
| Serial No.               | -                                      |
| EMI Classification       | Class B                                |
| Internal Clock Frequency | 2 480 MHz                              |
| Rated Power              | 5 Vd.c., 12 Vd.c.                      |
| Test Voltage             | 5 Vd.c., 12 Vd.c.                      |
| H/W Version              | V 1.0                                  |
| S/W Version              | V 1.0                                  |
| Port                     | -                                      |
| Components               | -                                      |
| Function                 | Bluetooth & Wi-Fi communication module |

### 1.4 Operating Modes and Conditions

| Operating mode  | Operating Condition                                                  |
|-----------------|----------------------------------------------------------------------|
| 1) Bluetooth Tx | The EUT is tested while transmitting to the Bluetooth test set.      |
| 2) Bluetooth Rx | The EUT is tested while receiving the Bluetooth test set.            |
| 3) WIFI         | EUT was tested in communication with WIRELESS CONNECTIVITY TEST SET. |

### 1.5 Peripheral Equipments

| Description     | Model    | Serial No. | Manufacturer                  | Note. |
|-----------------|----------|------------|-------------------------------|-------|
| Laptop          | NT740U5L | -          | Samsung Electronics Co., Ltd. | -     |
| DC POWER SUPPLY | IT6720   | -          | ITECH                         | -     |
| TEST JIG        | -        | -          | -                             | -     |

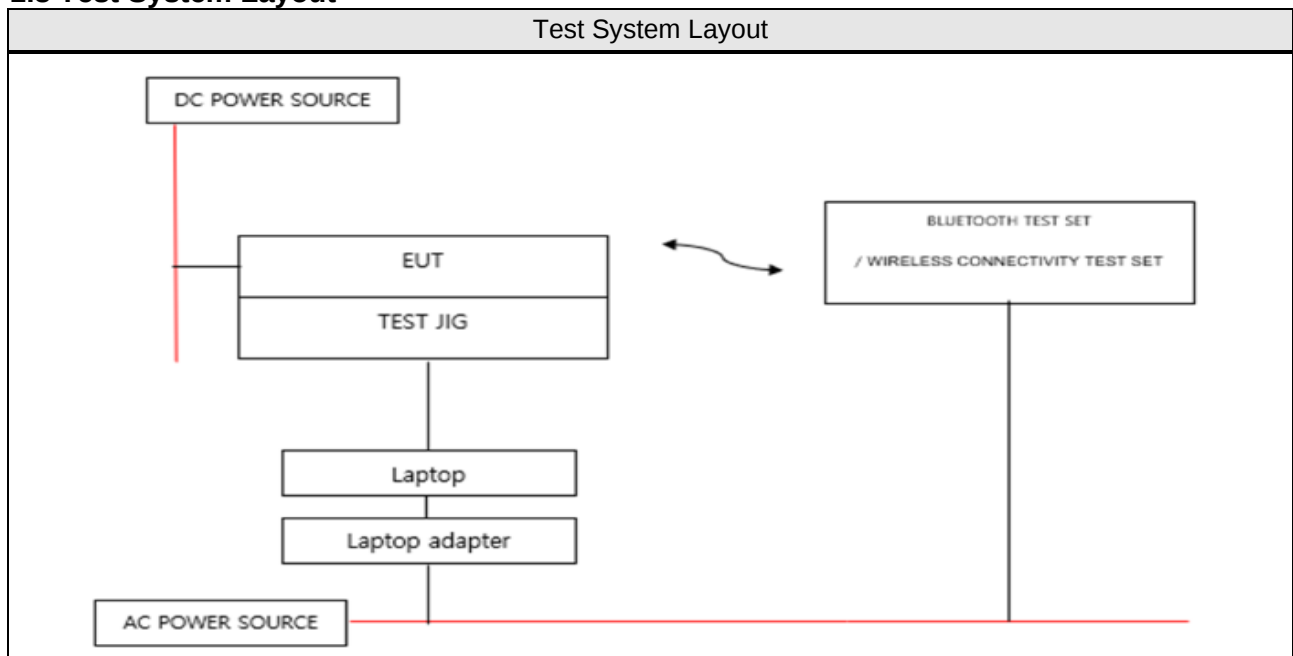
### 1.6 Cable List

| Start    |          | END                                                   |          | Cable Spec. |          | Used core |
|----------|----------|-------------------------------------------------------|----------|-------------|----------|-----------|
| Name     | I/O Port | Name                                                  | I/O Port | Length (m)  | Shield   |           |
| EUT      | DC IN    | DC POWER SOURCE                                       | DC OUT   | 0.8         | Unshield | -         |
|          | -        | TEST JIG                                              | -        | -           | -        | -         |
|          | -        | BLUETOOTH TEST SET/<br>WIRELESS CONNECTIVITY TEST SET | -        | -           | -        | -         |
| TEST JIG | USB      | Laptop                                                | USB      | 1.0         | Shield   | -         |

### 1.7 System Configurations

| Description | Model | Serial No. | Manufacturer | Note |
|-------------|-------|------------|--------------|------|
| -           | -     | -          | -            | -    |

### 1.8 Test System Layout



### 1.9 Modifications/Notes

- There was no modified item during the test.

### 1.10 Applicable Standards for Testing

| Standards                                        | Status     | Deviation    |
|--------------------------------------------------|------------|--------------|
| FCC Part 15 : Subpart B<br>ICES-003 Issue 7:2020 | Applicable | No Deviation |

### 1.11 Summary of Test Results

| Test Item          | Standards                                                                         | Results  |
|--------------------|-----------------------------------------------------------------------------------|----------|
| Conducted Emission | FCC Part 15 Subpart B Section 15.107<br>ICES-003 Issue 7:2020<br>ANSI C63.4a:2017 | N/A      |
| Radiated Emission  | FCC Part 15 Subpart B Section 15.109<br>ICES-003 Issue 7:2020<br>ANSI C63.4a:2017 | Complied |

Note : Test methods of all test items are performed according to the basic standards in this table.

# EMISSION

## 2.1 Test Results

| Test Items         | Standards                                                                         | Test Results |
|--------------------|-----------------------------------------------------------------------------------|--------------|
| Conducted Emission | FCC Part 15 Subpart B Section 15.107<br>ICES-003 Issue 7:2020<br>ANSI C63.4a:2017 | N/A          |
| Radiated Emission  | FCC Part 15 Subpart B Section 15.109<br>ICES-003 Issue 7:2020<br>ANSI C63.4a:2017 | Complied     |

## 2.2 Test Method and Limits

### 2.2.1 Test Method

| Test Items         | Measuring Frequency Range | RBW     | Measuring Distance |
|--------------------|---------------------------|---------|--------------------|
| Conducted Emission | 0.15 MHz ~ 30 MHz         | 9 kHz   | -                  |
| Radiated Emission  | 30 MHz ~ 1 GHz            | 120 kHz | 10 m & 3 m         |
|                    | Above 1 GHz               | 1 MHz   | 3 m                |

Note : 10 m method of radiated emission measurement is only applied to Class A equipment over the frequency range of 30 MHz ~ 1 GHz. Except this, 3 m method is applied to Class B equipment over the frequency range of 30 MHz ~ 1 GHz and Class A and Class B equipment above 1 GHz.

### 2.2.2 Test Limits

#### -Conducted Emission Limits

| Frequency Range    | Limits(dB $\mu$ V) |          | Class   |
|--------------------|--------------------|----------|---------|
|                    | Quasi-peak         | Average  |         |
| 0.15 MHz ~ 0.5 MHz | 79                 | 66       | Class A |
| 0.5 MHz ~ 30 MHz   | 73                 | 60       |         |
| 0.15 MHz ~ 0.5 MHz | 66 to 56           | 56 to 46 | Class B |
| 0.5 MHz ~ 5 MHz    | 56                 | 46       |         |
| 5 MHz ~ 30 MHz     | 60                 | 50       |         |

Note : The lower limit shall apply at the transition frequencies. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

#### -Radiated Emission Limits below 1 GHz

[ FCC Part 15 Subpart B ]

| Frequency Range   | Limits(dB $\mu$ V/m) | Class                    |
|-------------------|----------------------|--------------------------|
|                   | Quasi-peak           |                          |
| 30 MHz ~ 88 MHz   | 39.0                 | Class A<br>(10 m method) |
| 88 MHz ~ 216 MHz  | 43.5                 |                          |
| 216 MHz ~ 960 MHz | 46.4                 |                          |
| 960 MHz ~ 1 GHz   | 49.5                 |                          |
| 30 MHz ~ 88 MHz   | 40.0                 | Class B<br>(3 m method)  |
| 88 MHz ~ 216 MHz  | 43.5                 |                          |
| 216 MHz ~ 960 MHz | 46.0                 |                          |
| 960 MHz ~ 1 GHz   | 54.0                 |                          |

[ ICES-003 Issue 7 : 2020 ]

| Frequency Range   | Limits(dB $\mu$ V/m) | Class                    |
|-------------------|----------------------|--------------------------|
|                   | Quasi-peak           |                          |
| 30 MHz ~ 88 MHz   | 40.0                 | Class A<br>(10 m method) |
| 88 MHz ~ 216 MHz  | 43.5                 |                          |
| 216 MHz ~ 230 MHz | 46.4                 |                          |
| 230 MHz ~ 960 MHz | 47.0                 |                          |
| 960 MHz ~ 1 GHz   | 49.5                 |                          |
| 30 MHz ~ 88 MHz   | 50.0                 | Class A<br>(3 m method)  |
| 88 MHz ~ 216 MHz  | 54.0                 |                          |
| 216 MHz ~ 230 MHz | 56.9                 |                          |
| 230 MHz ~ 960 MHz | 57.0                 |                          |
| 960 MHz ~ 1 GHz   | 60.0                 |                          |
| 30 MHz ~ 88 MHz   | 30.0                 | Class B<br>(10 m method) |
| 88 MHz ~ 216 MHz  | 33.1                 |                          |
| 216 MHz ~ 230 MHz | 35.6                 |                          |
| 230 MHz ~ 960 MHz | 37.0                 |                          |
| 960 MHz ~ 1 GHz   | 43.5                 |                          |
| 30 MHz ~ 88 MHz   | 40.0                 | Class B<br>(3 m method)  |
| 88 MHz ~ 216 MHz  | 43.5                 |                          |
| 216 MHz ~ 230 MHz | 46.0                 |                          |
| 230 MHz ~ 960 MHz | 47.0                 |                          |
| 960 MHz ~ 1 GHz   | 54.0                 |                          |

#### -Radiated Emission Limits above 1 GHz (3 m method)

[ FCC Part 15 Subpart B ]

| Frequency Range | Limits(dB $\mu$ V/m) |      | Class   |
|-----------------|----------------------|------|---------|
|                 | Average              | Peak |         |
| Above 1 GHz     | 59.5                 | 79.5 | Class A |
| Above 1 GHz     | 54.0                 | 74.0 | Class B |

Note : The limits of class A equipment is extrapolated using an extrapolation factor of 20 dB/decade because it was measured at 3 m distance not 10 m distance.

[ ICES-003 Issue 7 : 2020 ]

| Frequency Range | Limits(dB $\mu$ V/m) |      | Class   |
|-----------------|----------------------|------|---------|
|                 | Average              | Peak |         |
| Above 1 GHz     | 60.0                 | 80.0 | Class A |
| Above 1 GHz     | 54.0                 | 74.0 | Class B |

## 2.3 Radiated Emission

The initial preliminary exploratory scans were performed over the measuring frequency range (30 MHz to 13 GHz) using a max hold mode incorporating a Peak detector by using the EMI measuring software. The final test data was measured using a Quasi-Peak detector below 1 GHz, Peak and CISPR Average detector above 1 GHz. Measurements were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height was varied from 1 m to 4 m and the EUT was rotated 360° to find the maximum emitting point for each frequency.

Note. Measuring software

- Giheung Lab.: EMC32(V10.40.10) from R&S
- Gunpo Lab.: EP5RE(V5.3.70) from TOYO
- Dongtan Lab.: EMC32(V10.40.10) from R&S

### 2.3.1 Test Equipments

| Equipment                      | Model     | Manufacturer | Serial No  | Cal Due. Date |
|--------------------------------|-----------|--------------|------------|---------------|
| EMI TEST RECEIVER              | ESU40     | R&S          | 100075     | 2024.01.19    |
| Hybrid ANTENNA                 | VULB 9163 | SCHWARZBECK  | 9163-396   | 2024.03.22    |
| Double Ridged Horn Antenna     | HF907     | R&S          | 102578     | 2024.05.17    |
| PREAMPLIFIER                   | AM-1431   | MITEQ        | 1336160    | 2024.05.23    |
| AMPLIFIER                      | SCU 18    | R&S          | 10070      | 2023.08.25    |
| Bluetooth Test Set             | MT8852B   | Anritsu      | 6272420469 | 2024.03.29    |
| Wireless Connectivity Test Set | MT8862A   | Anritsu      | 6272328241 | 2024.04.17    |

Note: The calibration period of every equipment is 1 year.

### 2.3.2 Test Site

10 m SEMI-ANECHOIC CHAMBER in Giheung Laboratory

### 2.3.3 Environment Conditions

#### Below 1 GHz

|                      |                                     |
|----------------------|-------------------------------------|
| Temperature          | (Minimum 21.5, Maximum 21.9) °C     |
| Humidity             | (Minimum 45.0, Maximum 46.0) % R.H. |
| Atmospheric Pressure | (Minimum 100.0, Maximum 100.0) kPa  |
| Test Date            | July 7, 2023                        |

#### Above 1 GHz

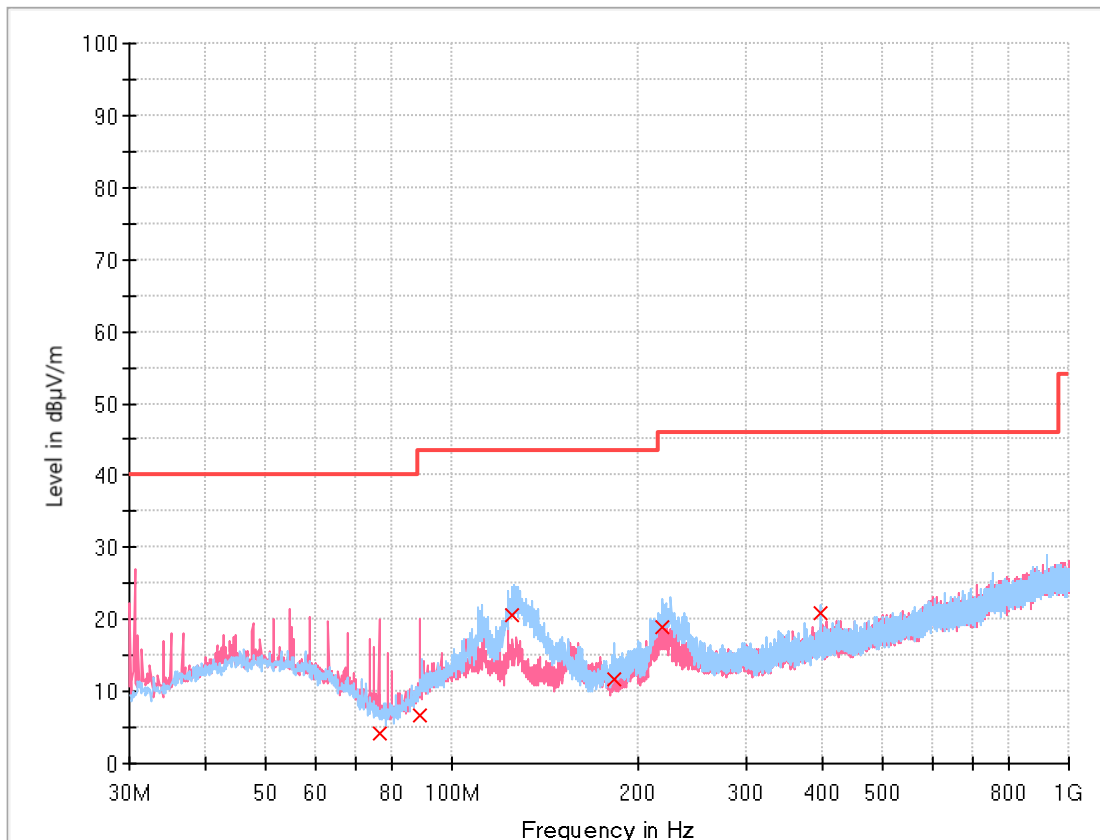
|                      |                                     |
|----------------------|-------------------------------------|
| Temperature          | (Minimum 21.5, Maximum 21.9) °C     |
| Humidity             | (Minimum 45.0, Maximum 46.0) % R.H. |
| Atmospheric Pressure | (Minimum 100.0, Maximum 100.0) kPa  |
| Test Date            | July 7, 2023                        |

## 2.3.4 Test Results

### Below 1 GHz (3 m method)

[FCC Part 15 Subpart B]

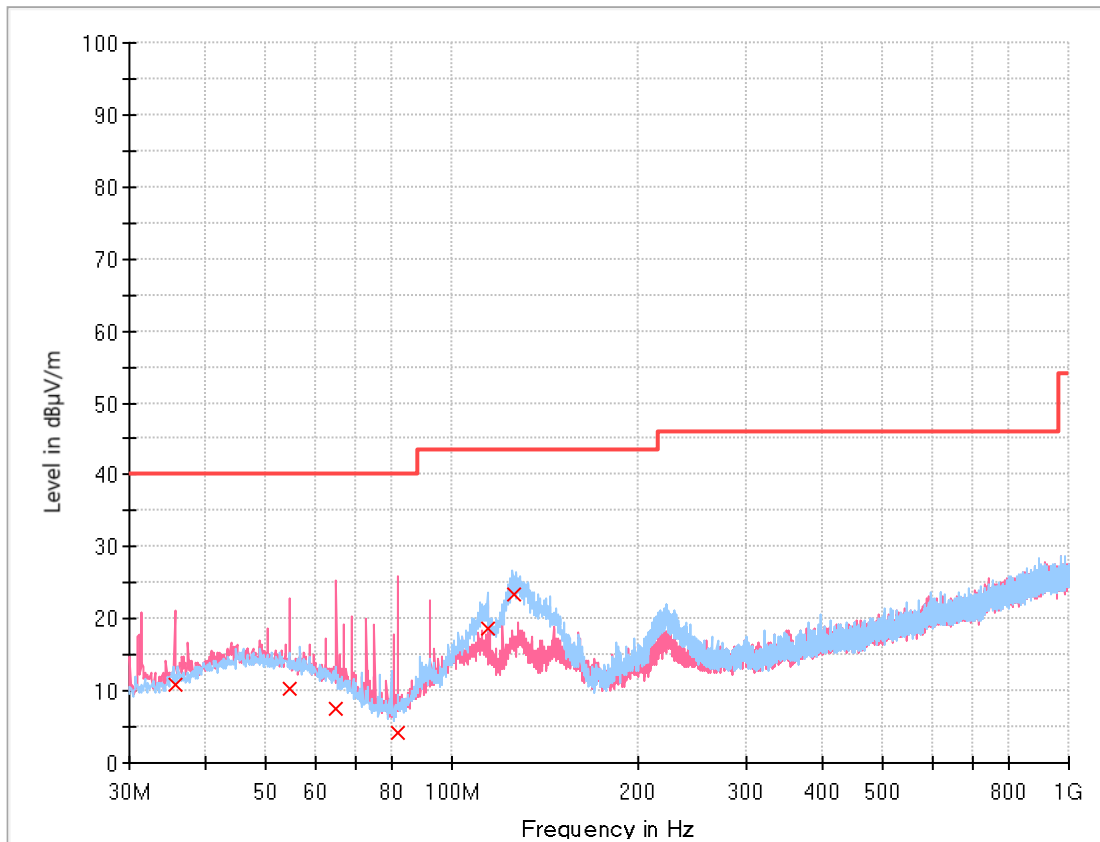
#### 1) Bluetooth Tx Mode(5 Vd.c.)



#### Final Result

| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 76.172          | 4.14               | 40.00          | 35.86       | 15 000.0        | 120.000         | 100.0       | V   | 284.0         | -24.3      |
| 88.782          | 6.56               | 43.50          | 36.94       | 15 000.0        | 120.000         | 100.0       | V   | 118.0         | -21.8      |
| 124.769         | 20.66              | 43.50          | 22.84       | 15 000.0        | 120.000         | 200.0       | H   | 39.0          | -22.3      |
| 183.357         | 11.73              | 43.50          | 31.77       | 15 000.0        | 120.000         | 200.0       | H   | 281.0         | -21.2      |
| 219.150         | 18.88              | 46.00          | 27.12       | 15 000.0        | 120.000         | 100.0       | H   | 292.0         | -19.6      |
| 395.981         | 20.98              | 46.00          | 25.02       | 15 000.0        | 120.000         | 100.0       | H   | 292.0         | -14.6      |

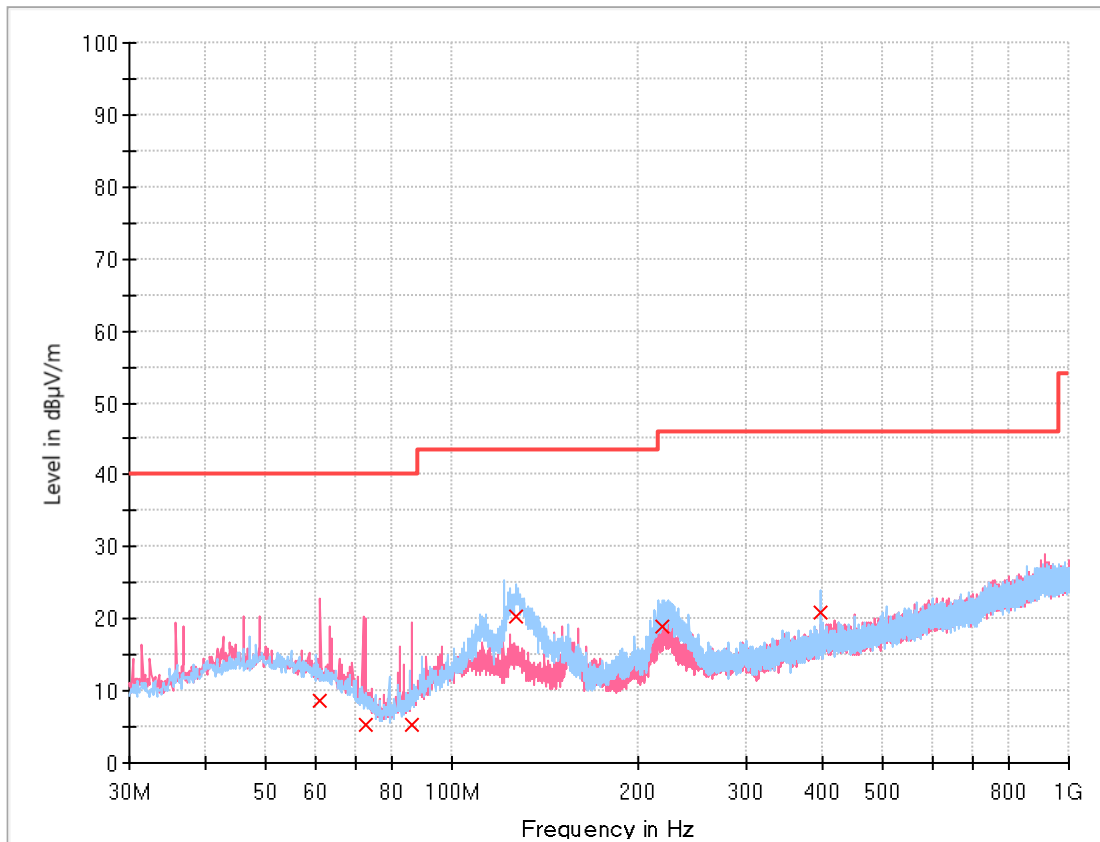
1) Bluetooth Tx Mode(12 Vd.c.)



Final Result

| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 35.529          | 10.82              | 40.00          | 29.18       | 15 000.0        | 120.000         | 100.0       | V   | 42.0          | -20.2      |
| 54.541          | 10.26              | 40.00          | 29.74       | 15 000.0        | 120.000         | 100.0       | V   | 224.0         | -17.9      |
| 65.017          | 7.64               | 40.00          | 32.36       | 15 000.0        | 120.000         | 100.0       | V   | 207.0         | -20.4      |
| 81.798          | 4.30               | 40.00          | 35.70       | 15 000.0        | 120.000         | 100.0       | V   | 149.0         | -24.1      |
| 114.002         | 18.78              | 43.50          | 24.72       | 15 000.0        | 120.000         | 300.0       | H   | 52.0          | -20.2      |
| 126.224         | 23.29              | 43.50          | 20.21       | 15 000.0        | 120.000         | 300.0       | H   | 61.0          | -22.5      |

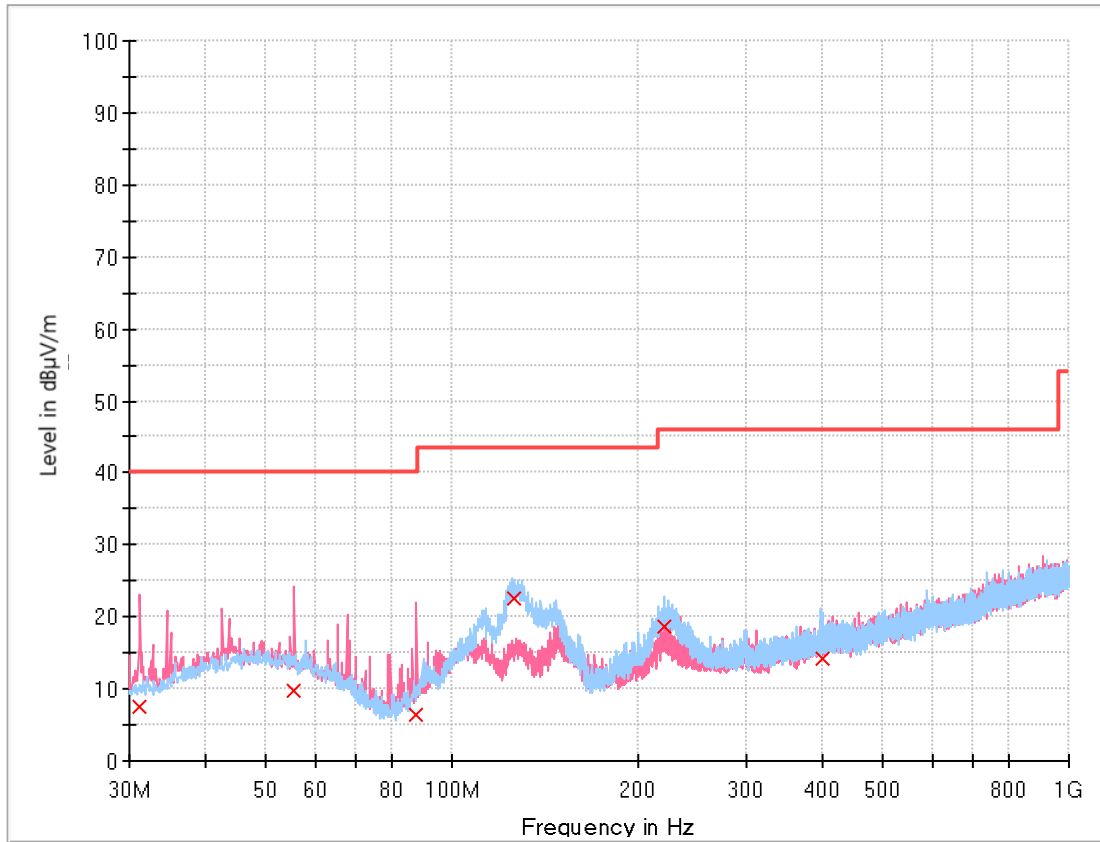
2) Bluetooth Rx Mode(5 Vd.c.)



Final Result

| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 61.234          | 8.55               | 40.00          | 31.45       | 15 000.0        | 120.000         | 100.0       | V   | 217.0         | -19.1      |
| 72.583          | 5.20               | 40.00          | 34.80       | 15 000.0        | 120.000         | 100.0       | V   | 234.0         | -23.0      |
| 86.163          | 5.38               | 40.00          | 34.62       | 15 000.0        | 120.000         | 100.0       | V   | 166.0         | -22.7      |
| 127.097         | 20.46              | 43.50          | 23.04       | 15 000.0        | 120.000         | 200.0       | H   | 33.0          | -22.5      |
| 219.926         | 19.02              | 46.00          | 26.98       | 15 000.0        | 120.000         | 200.0       | H   | 285.0         | -19.5      |
| 395.981         | 20.80              | 46.00          | 25.20       | 15 000.0        | 120.000         | 100.0       | H   | 7.0           | -14.6      |

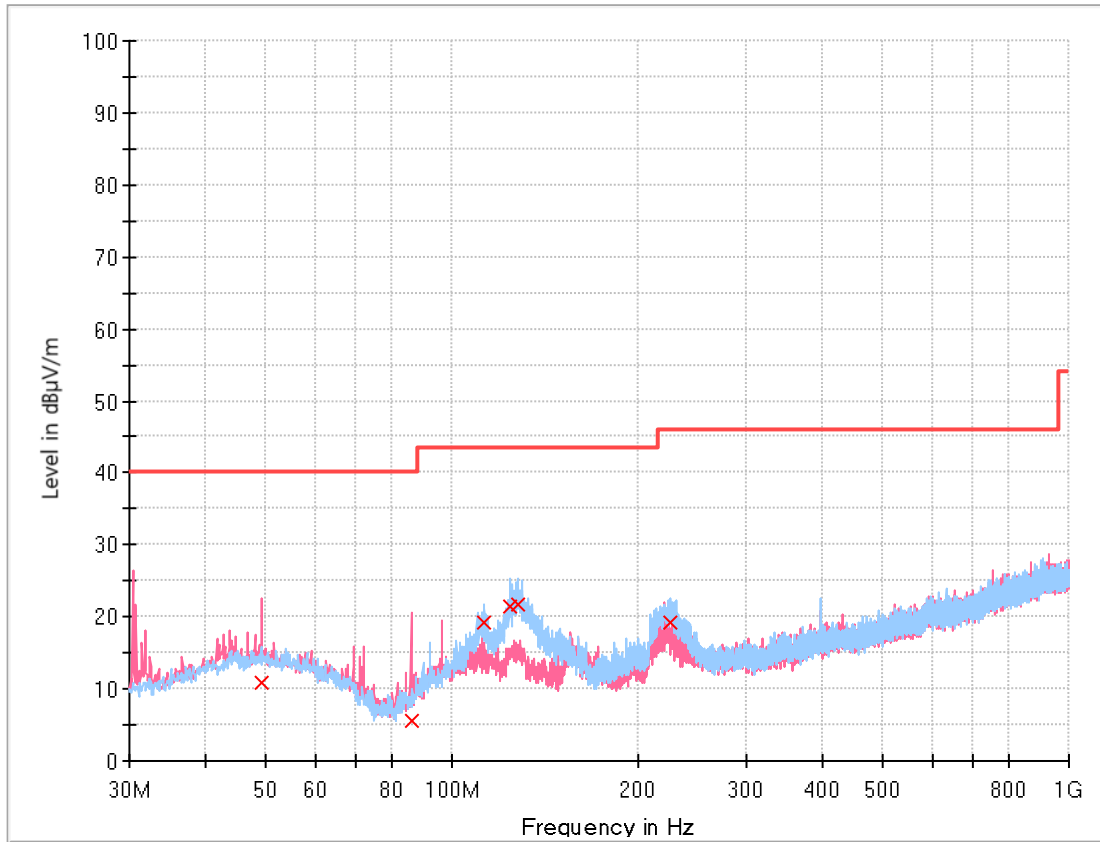
## 2) Bluetooth Rx Mode(12 Vd.c.)



### Final Result

| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 31.164          | 7.56               | 40.00          | 32.44       | 15 000.0        | 120.000         | 200.0       | V   | 153.0         | -21.6      |
| 55.511          | 9.81               | 40.00          | 30.19       | 15 000.0        | 120.000         | 100.0       | V   | 214.0         | -18.0      |
| 87.715          | 6.46               | 40.00          | 33.54       | 15 000.0        | 120.000         | 100.0       | V   | 223.0         | -22.2      |
| 125.836         | 22.59              | 43.50          | 20.91       | 15 000.0        | 120.000         | 200.0       | H   | 52.0          | -22.5      |
| 220.896         | 18.71              | 46.00          | 27.29       | 15 000.0        | 120.000         | 100.0       | H   | 293.0         | -19.5      |
| 398.406         | 14.09              | 46.00          | 31.91       | 15 000.0        | 120.000         | 100.0       | H   | 293.0         | -14.6      |

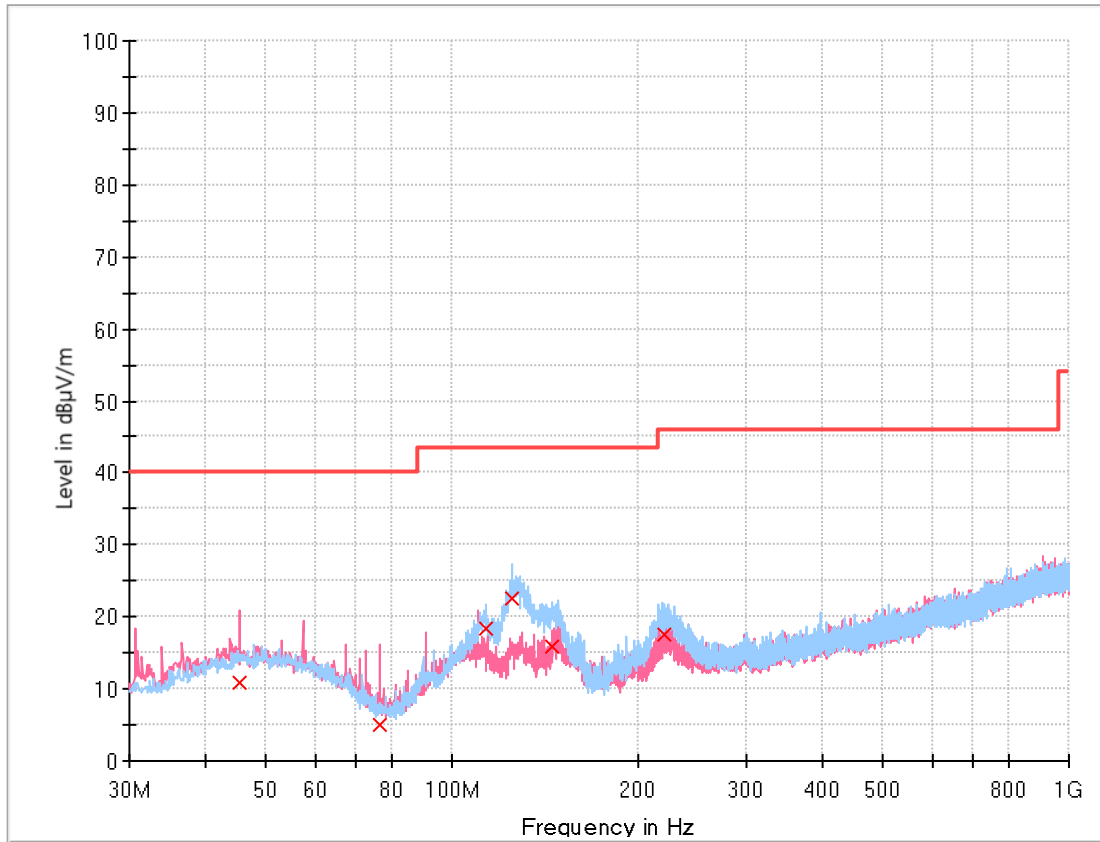
### 3) WIFI Mode(5 Vd.c.)



#### Final Result

| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 49.206          | 10.78              | 40.00          | 29.22       | 15 000.0        | 120.000         | 100.0       | V   | 225.0         | -17.4      |
| 85.775          | 5.53               | 40.00          | 34.47       | 15 000.0        | 120.000         | 100.0       | V   | 166.0         | -22.8      |
| 112.935         | 19.19              | 43.50          | 24.31       | 15 000.0        | 120.000         | 200.0       | H   | 43.0          | -20.1      |
| 124.575         | 21.56              | 43.50          | 21.94       | 15 000.0        | 120.000         | 200.0       | H   | 52.0          | -22.3      |
| 127.485         | 21.63              | 43.50          | 21.87       | 15 000.0        | 120.000         | 200.0       | H   | 43.0          | -22.5      |
| 226.425         | 19.20              | 46.00          | 26.80       | 15 000.0        | 120.000         | 200.0       | H   | 16.0          | -19.1      |

### 3) WIFI Mode(12 Vd.c.)

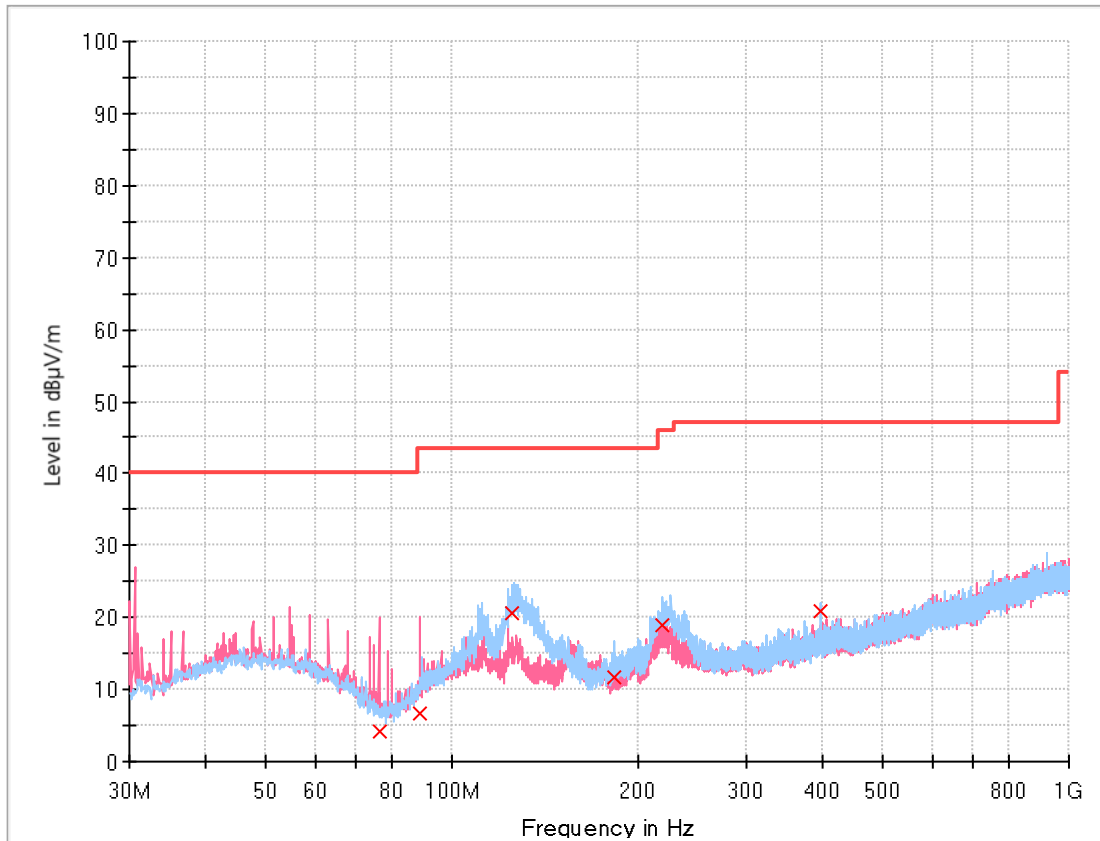


#### Final Result

| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 45.326          | 10.89              | 40.00          | 29.11       | 15 000.0        | 120.000         | 100.0       | V   | 50.0          | -17.6      |
| 76.366          | 5.04               | 40.00          | 34.96       | 15 000.0        | 120.000         | 200.0       | V   | 292.0         | -24.3      |
| 113.323         | 18.25              | 43.50          | 25.25       | 15 000.0        | 120.000         | 200.0       | H   | 68.0          | -20.1      |
| 125.157         | 22.46              | 43.50          | 21.04       | 15 000.0        | 120.000         | 200.0       | H   | 52.0          | -22.4      |
| 145.527         | 15.75              | 43.50          | 27.75       | 15 000.0        | 120.000         | 200.0       | H   | 42.0          | -23.4      |
| 220.702         | 17.57              | 46.00          | 28.43       | 15 000.0        | 120.000         | 200.0       | H   | 93.0          | -19.5      |

[ICES-003 Issue 7: 2020]

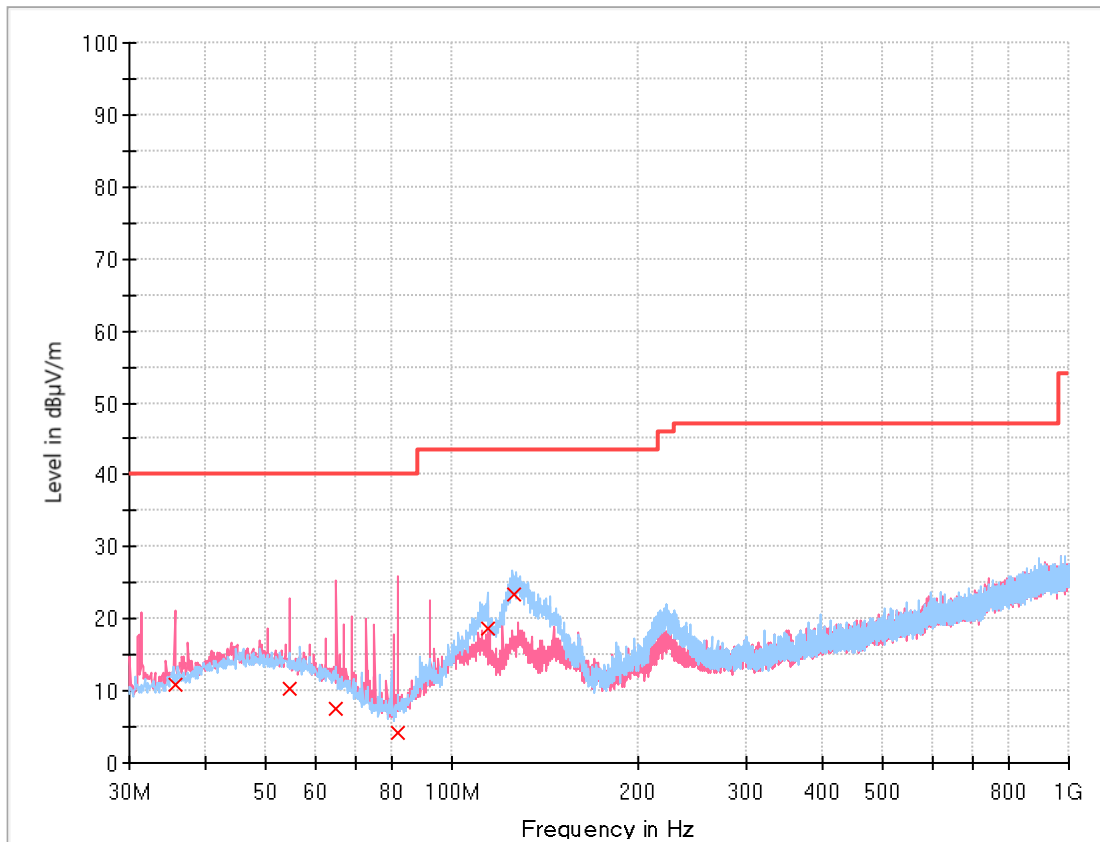
1) Bluetooth Tx Mode(5 Vd.c.)



Final Result

| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 76.172          | 4.14               | 40.00          | 35.86       | 15 000.0        | 120.000         | 100.0       | V   | 284.0         | -24.3      |
| 88.782          | 6.56               | 43.50          | 36.94       | 15 000.0        | 120.000         | 100.0       | V   | 118.0         | -21.8      |
| 124.769         | 20.66              | 43.50          | 22.84       | 15 000.0        | 120.000         | 200.0       | H   | 39.0          | -22.3      |
| 183.357         | 11.73              | 43.50          | 31.77       | 15 000.0        | 120.000         | 200.0       | H   | 281.0         | -21.2      |
| 219.150         | 18.88              | 46.00          | 27.12       | 15 000.0        | 120.000         | 100.0       | H   | 292.0         | -19.6      |
| 395.981         | 20.98              | 47.00          | 26.02       | 15 000.0        | 120.000         | 100.0       | H   | 292.0         | -14.6      |

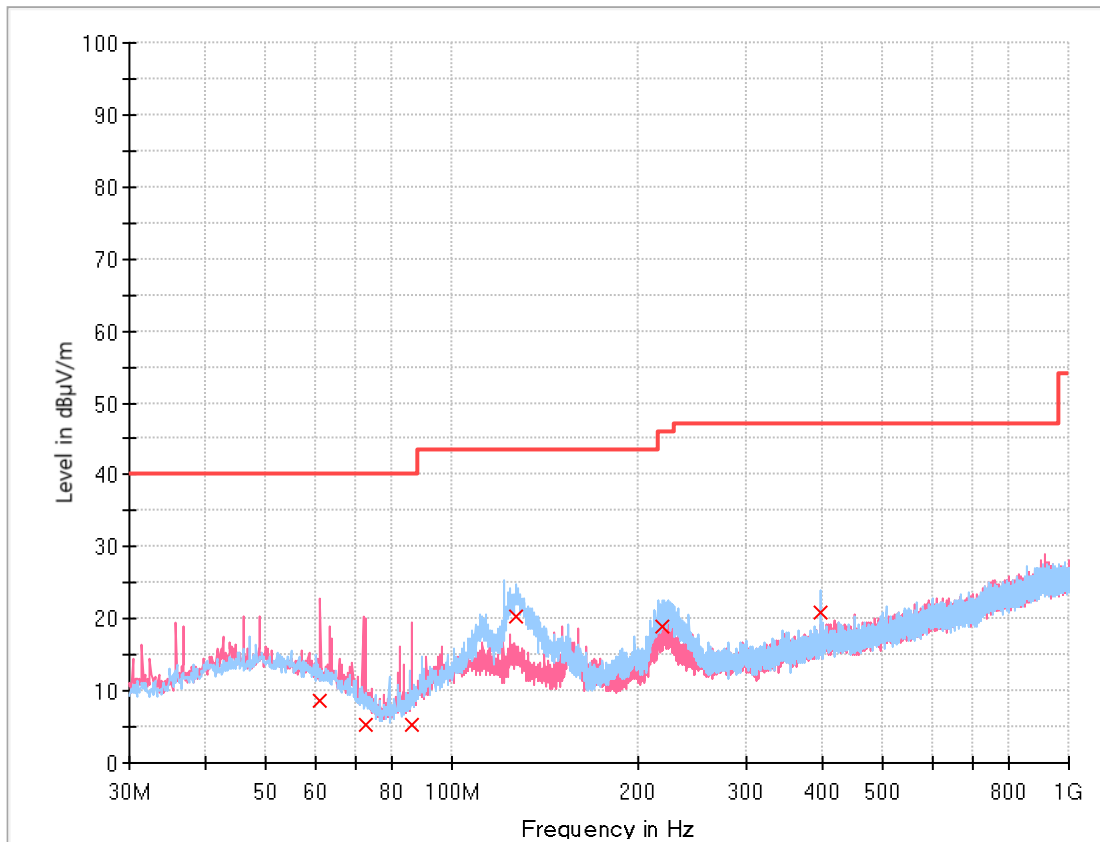
1) Bluetooth Tx Mode(12 Vd.c.)



Final Result

| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 35.529          | 10.82              | 40.00          | 29.18       | 15 000.0        | 120.000         | 100.0       | V   | 42.0          | -20.2      |
| 54.541          | 10.26              | 40.00          | 29.74       | 15 000.0        | 120.000         | 100.0       | V   | 224.0         | -17.9      |
| 65.017          | 7.64               | 40.00          | 32.36       | 15 000.0        | 120.000         | 100.0       | V   | 207.0         | -20.4      |
| 81.798          | 4.30               | 40.00          | 35.70       | 15 000.0        | 120.000         | 100.0       | V   | 149.0         | -24.1      |
| 114.002         | 18.78              | 43.50          | 24.72       | 15 000.0        | 120.000         | 300.0       | H   | 52.0          | -20.2      |
| 126.224         | 23.29              | 43.50          | 20.21       | 15 000.0        | 120.000         | 300.0       | H   | 61.0          | -22.5      |

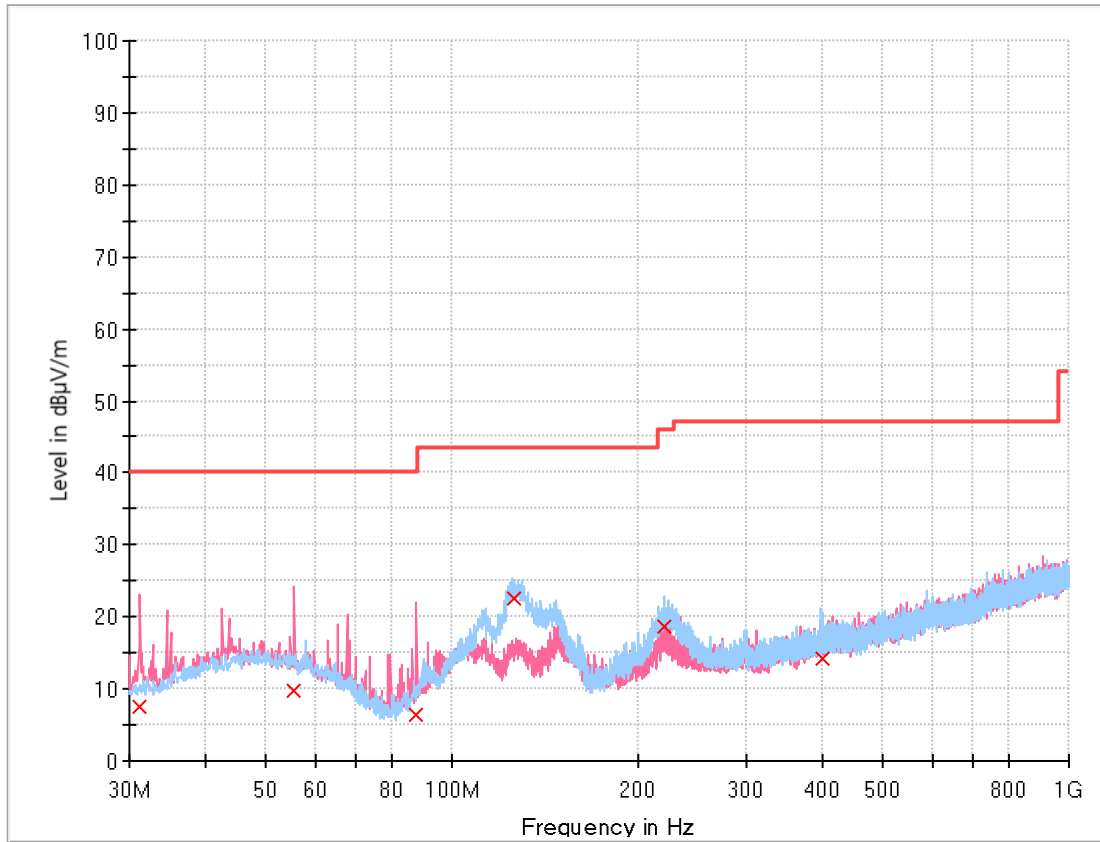
2) Bluetooth Rx Mode(5 Vd.c.)



Final Result

| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 61.234          | 8.55               | 40.00          | 31.45       | 15 000.0        | 120.000         | 100.0       | V   | 217.0         | -19.1      |
| 72.583          | 5.20               | 40.00          | 34.80       | 15 000.0        | 120.000         | 100.0       | V   | 234.0         | -23.0      |
| 86.163          | 5.38               | 40.00          | 34.62       | 15 000.0        | 120.000         | 100.0       | V   | 166.0         | -22.7      |
| 127.097         | 20.46              | 43.50          | 23.04       | 15 000.0        | 120.000         | 200.0       | H   | 33.0          | -22.5      |
| 219.926         | 19.02              | 46.00          | 26.98       | 15 000.0        | 120.000         | 200.0       | H   | 285.0         | -19.5      |
| 395.981         | 20.80              | 47.00          | 26.20       | 15 000.0        | 120.000         | 100.0       | H   | 7.0           | -14.6      |

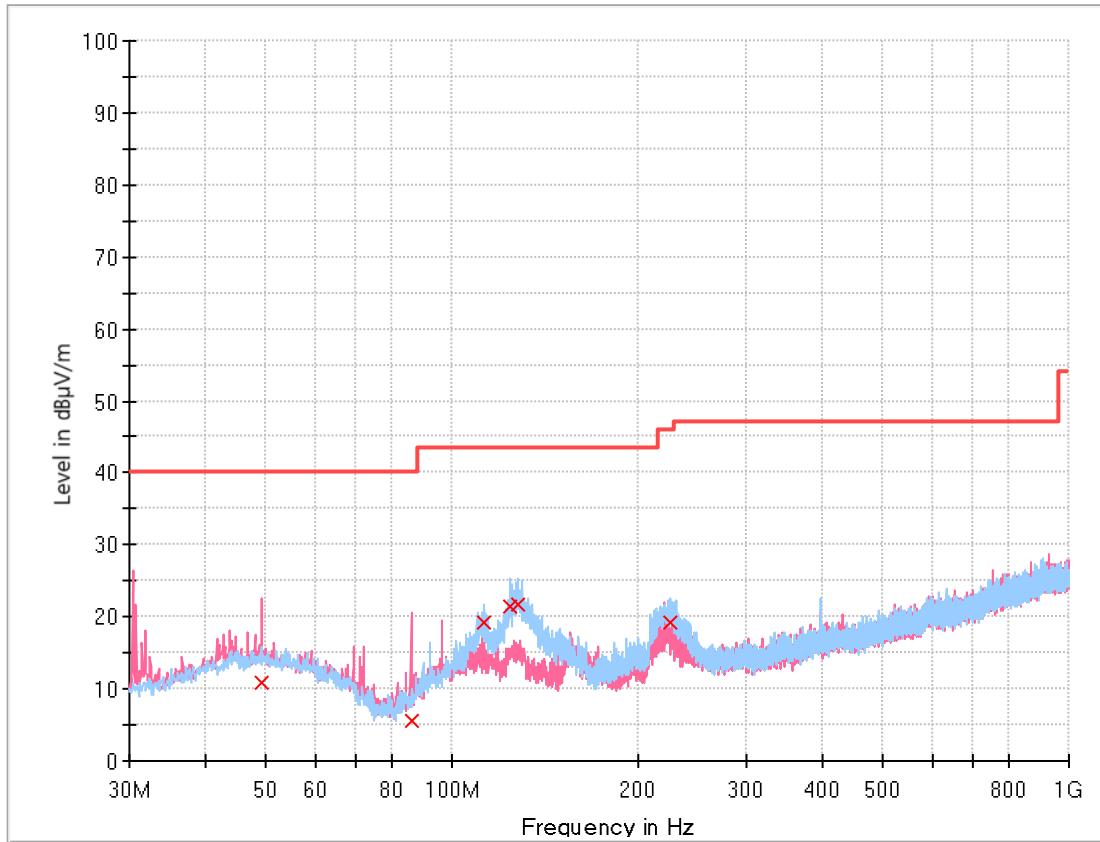
## 2) Bluetooth Rx Mode(12 Vd.c.)



### Final Result

| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 31.164          | 7.56               | 40.00          | 32.44       | 15 000.0        | 120.000         | 200.0       | V   | 153.0         | -21.6      |
| 55.511          | 9.81               | 40.00          | 30.19       | 15 000.0        | 120.000         | 100.0       | V   | 214.0         | -18.0      |
| 87.715          | 6.46               | 40.00          | 33.54       | 15 000.0        | 120.000         | 100.0       | V   | 223.0         | -22.2      |
| 125.836         | 22.59              | 43.50          | 20.91       | 15 000.0        | 120.000         | 200.0       | H   | 52.0          | -22.5      |
| 220.896         | 18.71              | 46.00          | 27.29       | 15 000.0        | 120.000         | 100.0       | H   | 293.0         | -19.5      |
| 398.406         | 14.09              | 47.00          | 32.91       | 15 000.0        | 120.000         | 100.0       | H   | 293.0         | -14.6      |

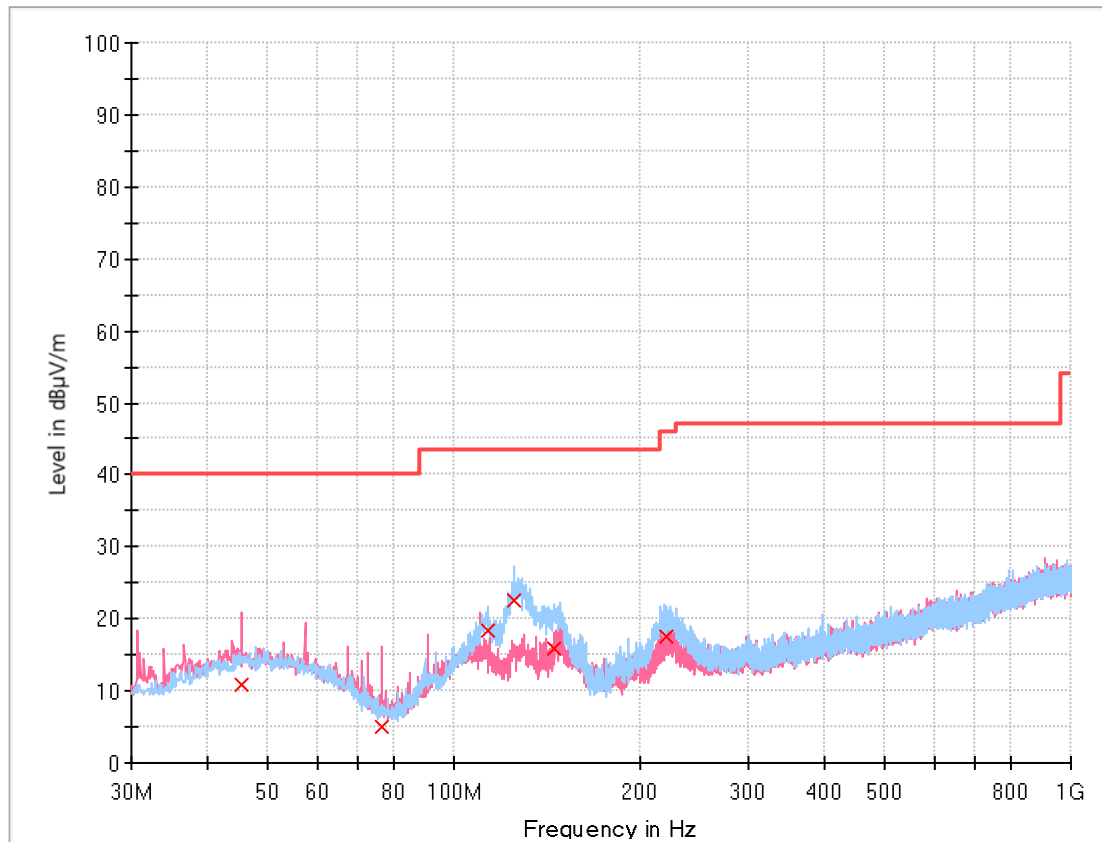
### 3) WIFI Mode(5 Vd.c.)



#### Final Result

| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 49.206          | 10.78              | 40.00          | 29.22       | 15 000.0        | 120.000         | 100.0       | V   | 225.0         | -17.4      |
| 85.775          | 5.53               | 40.00          | 34.47       | 15 000.0        | 120.000         | 100.0       | V   | 166.0         | -22.8      |
| 112.935         | 19.19              | 43.50          | 24.31       | 15 000.0        | 120.000         | 200.0       | H   | 43.0          | -20.1      |
| 124.575         | 21.56              | 43.50          | 21.94       | 15 000.0        | 120.000         | 200.0       | H   | 52.0          | -22.3      |
| 127.485         | 21.63              | 43.50          | 21.87       | 15 000.0        | 120.000         | 200.0       | H   | 43.0          | -22.5      |
| 226.425         | 19.20              | 46.00          | 26.80       | 15 000.0        | 120.000         | 200.0       | H   | 16.0          | -19.1      |

### 3) WIFI Mode(12 Vd.c.)



#### Final Result

| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 45.326          | 10.89              | 40.00          | 29.11       | 15 000.0        | 120.000         | 100.0       | V   | 50.0          | -17.6      |
| 76.366          | 5.04               | 40.00          | 34.96       | 15 000.0        | 120.000         | 200.0       | V   | 292.0         | -24.3      |
| 113.323         | 18.25              | 43.50          | 25.25       | 15 000.0        | 120.000         | 200.0       | H   | 68.0          | -20.1      |
| 125.157         | 22.46              | 43.50          | 21.04       | 15 000.0        | 120.000         | 200.0       | H   | 52.0          | -22.4      |
| 145.527         | 15.75              | 43.50          | 27.75       | 15 000.0        | 120.000         | 200.0       | H   | 42.0          | -23.4      |
| 220.702         | 17.57              | 46.00          | 28.43       | 15 000.0        | 120.000         | 200.0       | H   | 93.0          | -19.5      |

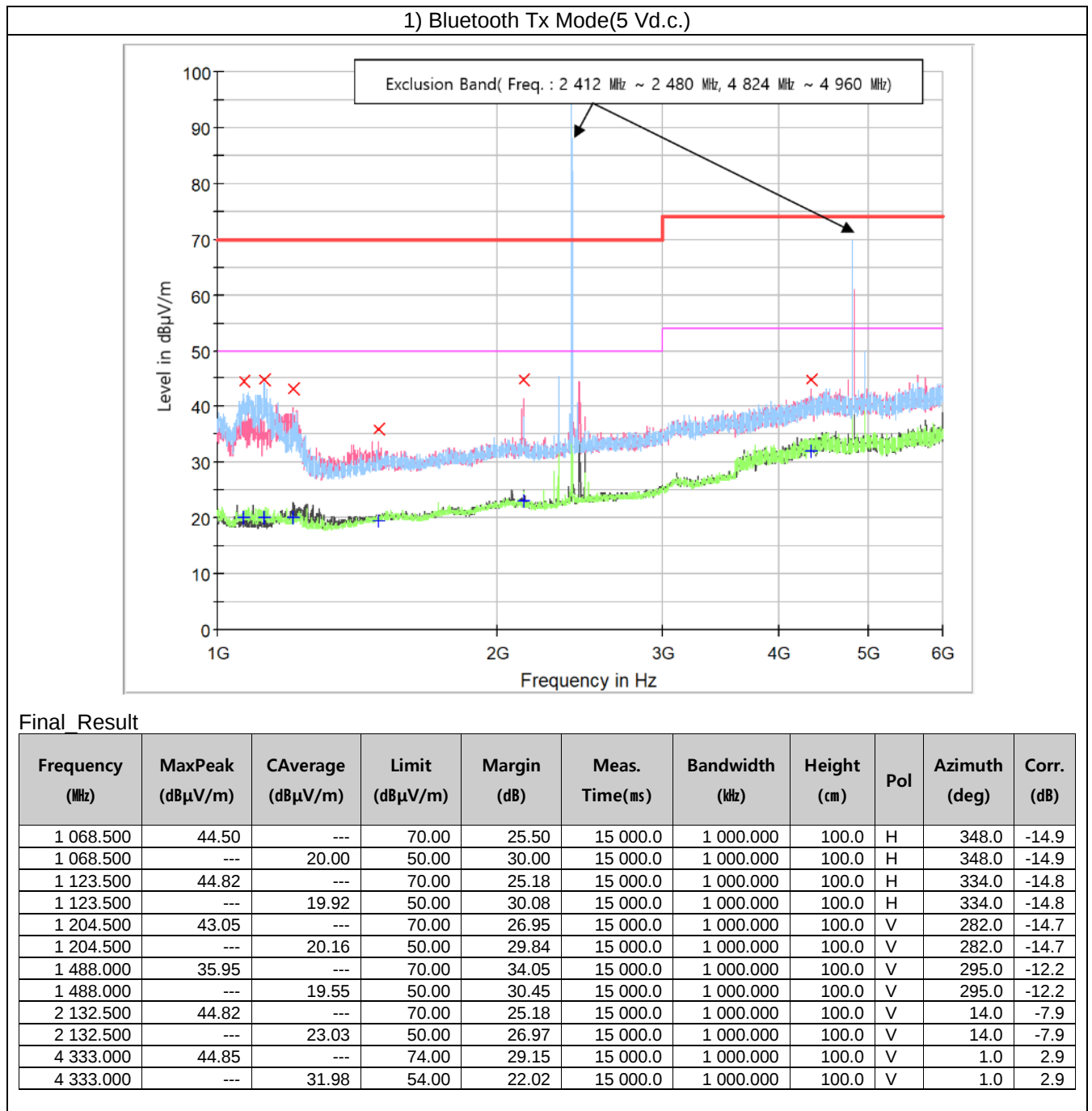
Measurement Uncertainty: See Appendix A

Note : • POL H = Horizontal

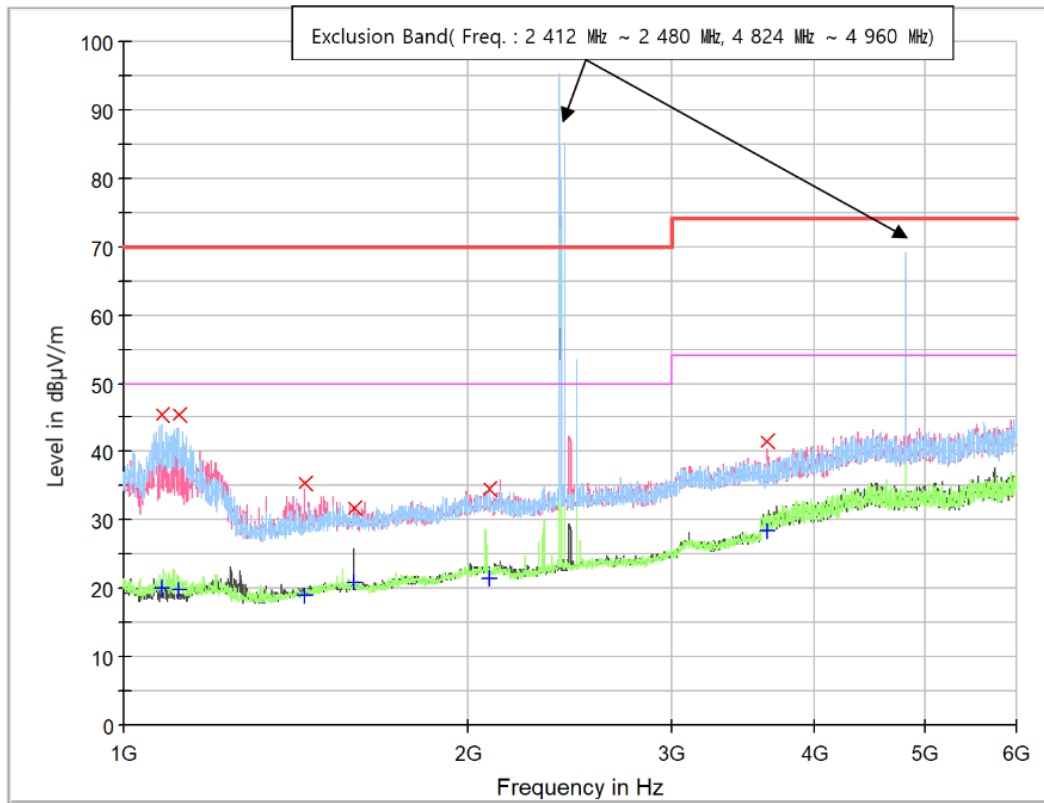
• POL V = Vertical

• Margin = Limit – Quasi Peak • Corr. = Antenna Factor + Cable loss – Amplifier Gain

## Above 1 GHz (3 m method)



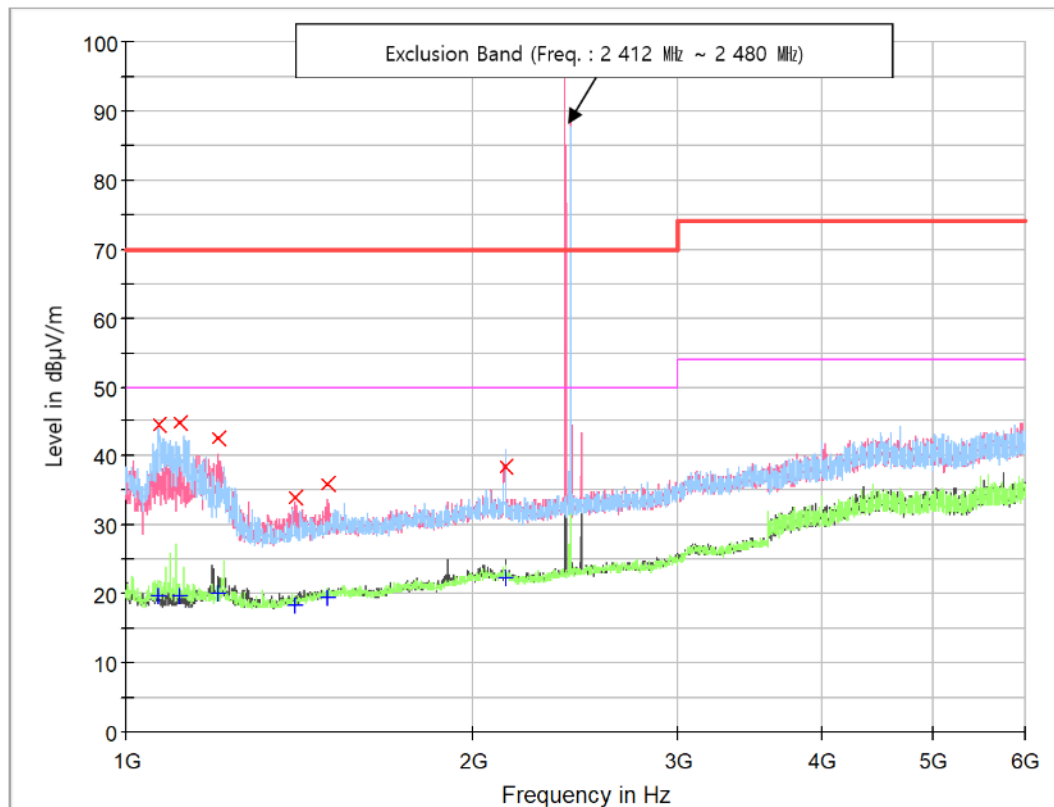
1) Bluetooth Tx Mode(12 Vd.c.)



Final Result

| Frequency (MHz) | MaxPeak (dBμV/m) | CAverage (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time(ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|-------------------|----------------|-------------|----------------|-----------------|-------------|-----|---------------|------------|
| 1 080.000       | 45.32            | ---               | 70.00          | 24.68       | 15 000.0       | 1 000.000       | 100.0       | H   | 347.0         | -14.9      |
| 1 080.000       | ---              | 19.97             | 50.00          | 30.03       | 15 000.0       | 1 000.000       | 100.0       | H   | 347.0         | -14.9      |
| 1 118.500       | ---              | 19.90             | 50.00          | 30.10       | 15 000.0       | 1 000.000       | 100.0       | H   | 333.0         | -14.8      |
| 1 118.500       | 45.40            | ---               | 70.00          | 24.60       | 15 000.0       | 1 000.000       | 100.0       | H   | 333.0         | -14.8      |
| 1 437.000       | 35.33            | ---               | 70.00          | 34.67       | 15 000.0       | 1 000.000       | 100.0       | V   | 344.0         | -12.8      |
| 1 437.000       | ---              | 18.93             | 50.00          | 31.07       | 15 000.0       | 1 000.000       | 100.0       | V   | 344.0         | -12.8      |
| 1 587.500       | ---              | 20.86             | 50.00          | 29.14       | 15 000.0       | 1 000.000       | 100.0       | V   | 0.0           | -11.6      |
| 1 587.500       | 31.72            | ---               | 70.00          | 38.28       | 15 000.0       | 1 000.000       | 100.0       | V   | 0.0           | -11.6      |
| 2 084.500       | ---              | 21.41             | 50.00          | 28.59       | 15 000.0       | 1 000.000       | 100.0       | H   | 31.0          | -7.9       |
| 2 084.500       | 34.63            | ---               | 70.00          | 35.37       | 15 000.0       | 1 000.000       | 100.0       | H   | 31.0          | -7.9       |
| 3 642.500       | ---              | 28.35             | 54.00          | 25.65       | 15 000.0       | 1 000.000       | 100.0       | V   | 358.0         | -0.9       |
| 3 642.500       | 41.43            | ---               | 74.00          | 32.57       | 15 000.0       | 1 000.000       | 100.0       | V   | 358.0         | -0.9       |

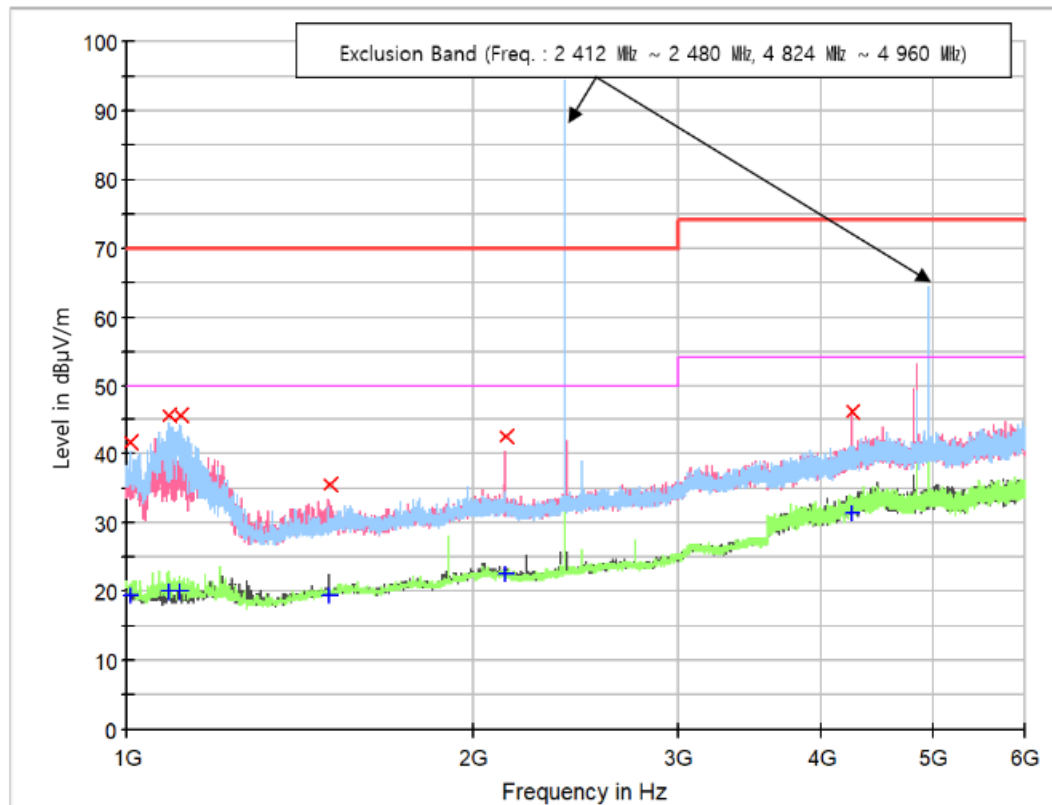
## 2) Bluetooth Rx Mode(5 Vd.c.)



### Final Result

| Frequency (MHz) | MaxPeak (dBμV/m) | CAverage (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time(ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|-------------------|----------------|-------------|----------------|-----------------|-------------|-----|---------------|------------|
| 1 069.000       | 44.58            | ---               | 70.00          | 25.42       | 15 000.0       | 1 000.000       | 100.0       | H   | 348.0         | -14.9      |
| 1 069.000       | ---              | 19.77             | 50.00          | 30.23       | 15 000.0       | 1 000.000       | 100.0       | H   | 348.0         | -14.9      |
| 1 114.500       | ---              | 19.65             | 50.00          | 30.35       | 15 000.0       | 1 000.000       | 100.0       | H   | 334.0         | -14.8      |
| 1 114.500       | 44.98            | ---               | 70.00          | 25.02       | 15 000.0       | 1 000.000       | 100.0       | H   | 334.0         | -14.8      |
| 1 203.000       | ---              | 20.18             | 50.00          | 29.82       | 15 000.0       | 1 000.000       | 100.0       | V   | 273.0         | -14.7      |
| 1 203.000       | 42.71            | ---               | 70.00          | 27.29       | 15 000.0       | 1 000.000       | 100.0       | V   | 273.0         | -14.7      |
| 1 397.500       | ---              | 18.40             | 50.00          | 31.60       | 15 000.0       | 1 000.000       | 100.0       | V   | 348.0         | -13.3      |
| 1 397.500       | 34.05            | ---               | 70.00          | 35.95       | 15 000.0       | 1 000.000       | 100.0       | V   | 348.0         | -13.3      |
| 1 491.500       | 35.83            | ---               | 70.00          | 34.17       | 15 000.0       | 1 000.000       | 100.0       | V   | 198.0         | -12.2      |
| 1 491.500       | ---              | 19.41             | 50.00          | 30.59       | 15 000.0       | 1 000.000       | 100.0       | V   | 198.0         | -12.2      |
| 2 131.500       | ---              | 22.25             | 50.00          | 27.75       | 15 000.0       | 1 000.000       | 100.0       | H   | 100.0         | -7.9       |
| 2 131.500       | 38.56            | ---               | 70.00          | 31.44       | 15 000.0       | 1 000.000       | 100.0       | H   | 100.0         | -7.9       |

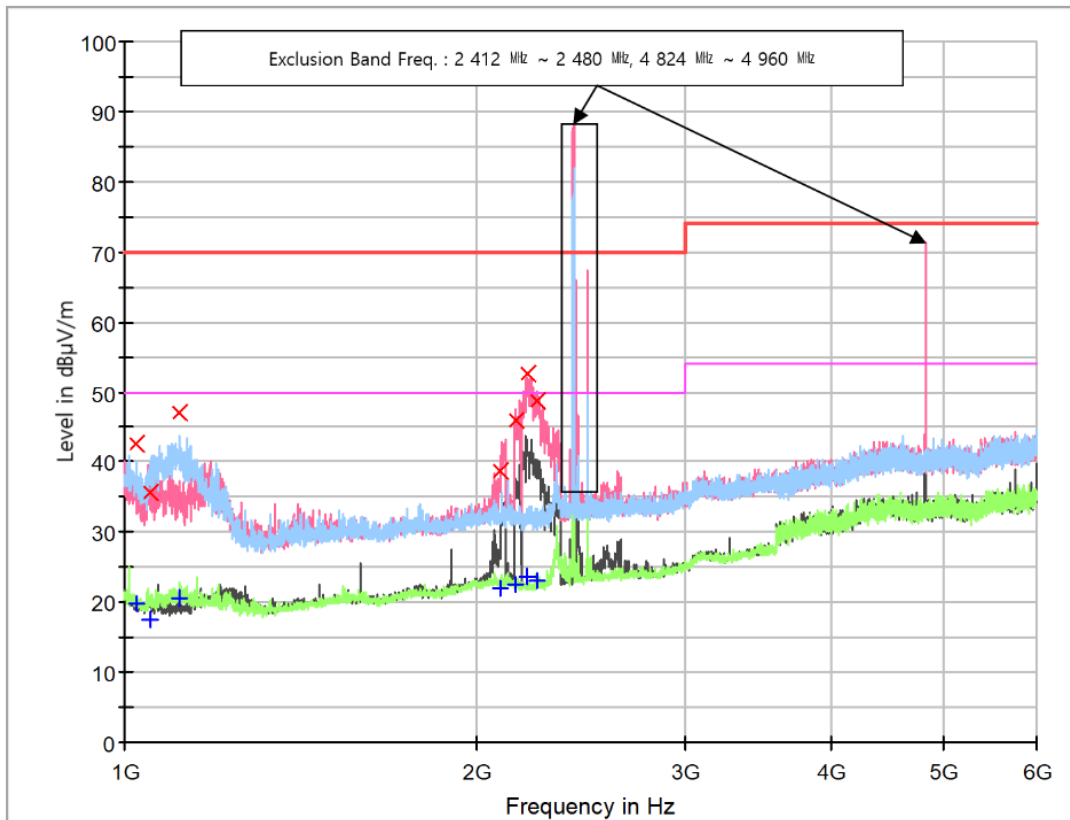
## 2) Bluetooth Rx Mode(12 Vd.c.)



### Final Result

| Frequency (MHz) | MaxPeak (dBμV/m) | CAverage (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time(ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|-------------------|----------------|-------------|----------------|-----------------|-------------|-----|---------------|------------|
| 1 006.000       | 41.79            | ---               | 70.00          | 28.21       | 15 000.0       | 1 000.000       | 100.0       | H   | 344.0         | -15.2      |
| 1 006.000       | ---              | 19.63             | 50.00          | 30.37       | 15 000.0       | 1 000.000       | 100.0       | H   | 344.0         | -15.2      |
| 1 086.500       | ---              | 20.11             | 50.00          | 29.89       | 15 000.0       | 1 000.000       | 100.0       | H   | 344.0         | -14.9      |
| 1 086.500       | 45.61            | ---               | 70.00          | 24.39       | 15 000.0       | 1 000.000       | 100.0       | H   | 344.0         | -14.9      |
| 1 115.000       | 45.81            | ---               | 70.00          | 24.19       | 15 000.0       | 1 000.000       | 100.0       | H   | 330.0         | -14.8      |
| 1 115.000       | ---              | 19.92             | 50.00          | 30.08       | 15 000.0       | 1 000.000       | 100.0       | H   | 330.0         | -14.8      |
| 1 499.000       | 35.53            | ---               | 70.00          | 34.47       | 15 000.0       | 1 000.000       | 100.0       | V   | 288.0         | -12.1      |
| 1 499.000       | ---              | 19.57             | 50.00          | 30.43       | 15 000.0       | 1 000.000       | 100.0       | V   | 288.0         | -12.1      |
| 2 127.000       | ---              | 22.42             | 50.00          | 27.58       | 15 000.0       | 1 000.000       | 100.0       | V   | 14.0          | -7.9       |
| 2 127.000       | 42.58            | ---               | 70.00          | 27.42       | 15 000.0       | 1 000.000       | 100.0       | V   | 14.0          | -7.9       |
| 4 252.000       | 46.18            | ---               | 74.00          | 27.82       | 15 000.0       | 1 000.000       | 100.0       | V   | 1.0           | 2.6        |
| 4 252.000       | ---              | 31.60             | 54.00          | 22.40       | 15 000.0       | 1 000.000       | 100.0       | V   | 1.0           | 2.6        |

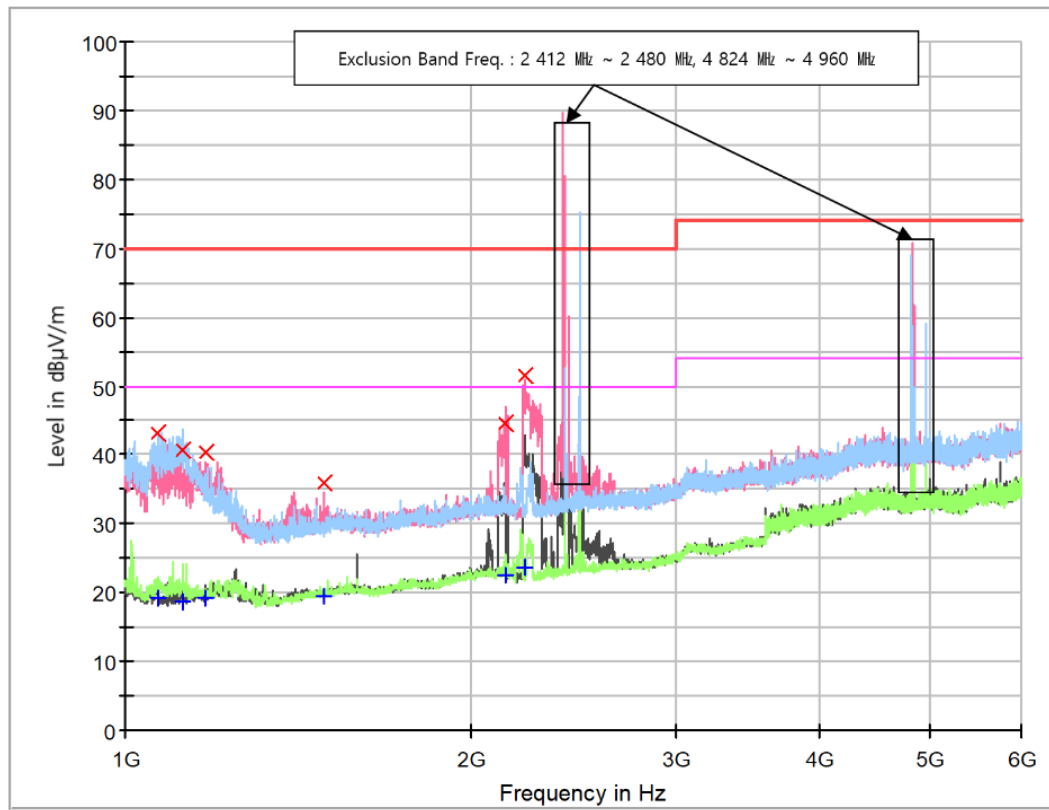
### 3) WIFI Mode(5 Vd.c.)



#### Final Result

| Frequency (MHz) | MaxPeak (dBμV/m) | CAverage (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time(ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|-------------------|----------------|-------------|----------------|-----------------|-------------|-----|---------------|------------|
| 1 023.500       | 42.64            | ---               | 70.00          | 27.36       | 15 000.0       | 1 000.000       | 100.0       | H   | 214.0         | -15.1      |
| 1 023.500       | ---              | 19.74             | 50.00          | 30.26       | 15 000.0       | 1 000.000       | 100.0       | H   | 214.0         | -15.1      |
| 1 052.500       | 35.69            | ---               | 70.00          | 34.31       | 15 000.0       | 1 000.000       | 100.0       | H   | 164.0         | -14.9      |
| 1 052.500       | ---              | 17.52             | 50.00          | 32.48       | 15 000.0       | 1 000.000       | 100.0       | H   | 164.0         | -14.9      |
| 1 113.500       | ---              | 20.51             | 50.00          | 29.49       | 15 000.0       | 1 000.000       | 100.0       | H   | 227.0         | -14.8      |
| 1 113.500       | 47.03            | ---               | 70.00          | 22.97       | 15 000.0       | 1 000.000       | 100.0       | H   | 227.0         | -14.8      |
| 2 089.500       | ---              | 22.01             | 50.00          | 27.99       | 15 000.0       | 1 000.000       | 100.0       | V   | 68.0          | -7.9       |
| 2 089.500       | 38.58            | ---               | 70.00          | 31.42       | 15 000.0       | 1 000.000       | 100.0       | V   | 68.0          | -7.9       |
| 2 153.500       | ---              | 22.68             | 50.00          | 27.32       | 15 000.0       | 1 000.000       | 100.0       | V   | 158.0         | -7.9       |
| 2 153.500       | 45.83            | ---               | 70.00          | 24.17       | 15 000.0       | 1 000.000       | 100.0       | V   | 158.0         | -7.9       |
| 2 206.000       | ---              | 23.56             | 50.00          | 26.44       | 15 000.0       | 1 000.000       | 100.0       | V   | 210.0         | -8.1       |
| 2 206.000       | 52.54            | ---               | 70.00          | 17.46       | 15 000.0       | 1 000.000       | 100.0       | V   | 210.0         | -8.1       |
| 2 246.500       | ---              | 23.18             | 50.00          | 26.82       | 15 000.0       | 1 000.000       | 100.0       | V   | 274.0         | -7.9       |
| 2 246.500       | 48.84            | ---               | 70.00          | 21.16       | 15 000.0       | 1 000.000       | 100.0       | V   | 274.0         | -7.9       |

### 3) WIFI Mode(12 Vd.c.)



#### Final Result

| Frequency (MHz) | MaxPeak (dBμV/m) | CAverage (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time(ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|-------------------|----------------|-------------|----------------|-----------------|-------------|-----|---------------|------------|
| 1 069.000       | 43.18            | ---               | 70.00          | 26.82       | 15 000.0       | 1 000.000       | 100.0       | H   | 349.0         | -14.9      |
| 1 069.000       | ---              | 19.31             | 50.00          | 30.69       | 15 000.0       | 1 000.000       | 100.0       | H   | 349.0         | -14.9      |
| 1 123.000       | 40.62            | ---               | 70.00          | 29.38       | 15 000.0       | 1 000.000       | 100.0       | H   | 1.0           | -14.8      |
| 1 123.000       | ---              | 18.78             | 50.00          | 31.22       | 15 000.0       | 1 000.000       | 100.0       | H   | 1.0           | -14.8      |
| 1 173.500       | 40.49            | ---               | 70.00          | 29.51       | 15 000.0       | 1 000.000       | 100.0       | V   | 271.0         | -14.8      |
| 1 173.500       | ---              | 19.24             | 50.00          | 30.76       | 15 000.0       | 1 000.000       | 100.0       | V   | 271.0         | -14.8      |
| 1 486.500       | ---              | 19.46             | 50.00          | 30.54       | 15 000.0       | 1 000.000       | 100.0       | V   | 284.0         | -12.3      |
| 1 486.500       | 35.96            | ---               | 70.00          | 34.04       | 15 000.0       | 1 000.000       | 100.0       | V   | 284.0         | -12.3      |
| 2 139.500       | ---              | 22.66             | 50.00          | 27.34       | 15 000.0       | 1 000.000       | 100.0       | V   | 271.0         | -7.9       |
| 2 139.500       | 44.46            | ---               | 70.00          | 25.54       | 15 000.0       | 1 000.000       | 100.0       | V   | 271.0         | -7.9       |
| 2 220.000       | 51.63            | ---               | 70.00          | 18.37       | 15 000.0       | 1 000.000       | 100.0       | V   | 208.0         | -8.0       |
| 2 220.000       | ---              | 23.74             | 50.00          | 26.26       | 15 000.0       | 1 000.000       | 100.0       | V   | 208.0         | -8.0       |

Measurement Uncertainty : See Appendix A

Note : • AF = Antenna Factor

• POL H = Horizontal

• H = Height

• Corr. = AF + CL – AMP

• CL = Cable Loss

• POL V = Vertical

• Margin = Limit – Result

\*\* The value of 'Level' includes 'Corr.'.

• AMP = Amplifier Gain

• A = Angle

Ex) In case

Freq ; 100 MHz, level ; 30 dB(μV/m), AF ; 10 dB/m, CL ; 4 dB, Amp ; 25 dB

Result = Level + AF + CL – Amp

= 30 + 10 + 4 - 25

= 19

Margin = Limit – Result

= 43.5 – 19

= 24.5

## Appendix A : Measurement Uncertainty

### - Giheung Laboratory

| Test Method                 |                    | Measurement Uncertainty                      |                                              |
|-----------------------------|--------------------|----------------------------------------------|----------------------------------------------|
| Conducted Emission          |                    | ENV216                                       | 3.7 dB (The confidential level is 95 %, k=2) |
|                             |                    | ESH2-Z5                                      | 3.2 dB (The confidential level is 95 %, k=2) |
|                             |                    | ESH3-Z6                                      | 3.2 dB (The confidential level is 95 %, k=2) |
|                             |                    | NNLK8129                                     | 3.1 dB (The confidential level is 95 %, k=2) |
| Conducted Emission - Signal |                    | ISN T800                                     | 5.4 dB (The confidential level is 95 %, k=2) |
|                             |                    | ISN ST08                                     | 6.6 dB (The confidential level is 95 %, k=2) |
| Discontinuous               |                    | 2.7 dB (The confidential level is 95 %, k=2) |                                              |
| Radiated Emission           | 9 kHz ~30 MHz      | Horizontal                                   | 3.3 dB (The confidential level is 95 %, k=2) |
|                             |                    | Vertical                                     | 3.3 dB (The confidential level is 95 %, k=2) |
|                             | 30 MHz ~ 1 000 MHz | Horizontal                                   | 4.3 dB (The confidential level is 95 %, k=2) |
|                             |                    | Vertical                                     | 4.6 dB (The confidential level is 95 %, k=2) |
|                             | 1 GHz ~ 18 GHz     | Horizontal                                   | 3.9 dB (The confidential level is 95 %, k=2) |
|                             |                    | Vertical                                     | 4.0 dB (The confidential level is 95 %, k=2) |

### - Gunpo Laboratory

| Test Method                             |                    | Measurement Uncertainty                      |                                              |
|-----------------------------------------|--------------------|----------------------------------------------|----------------------------------------------|
| Conducted Emission                      |                    | ENV216                                       | 4.0 dB (The confidential level is 95 %, k=2) |
|                                         |                    | ESH2-Z5                                      | 3.6 dB (The confidential level is 95 %, k=2) |
|                                         |                    | ESH3-Z6                                      | 3.8 dB (The confidential level is 95 %, k=2) |
| Conducted Emission - Signal             |                    | ISN T800                                     | 5.8 dB (The confidential level is 95 %, k=2) |
|                                         |                    | ISNT8-Cat6                                   | 5.8 dB (The confidential level is 95 %, k=2) |
|                                         |                    | ISN S751                                     | 7.5 dB (The confidential level is 95 %, k=2) |
| Disturbance Voltage at Antenna Terminal |                    | 2.9 dB (The confidential level is 95 %, k=2) |                                              |
| Radiated Emission                       | 9 kHz ~30 MHz      | Horizontal                                   | 3.4 dB (The confidential level is 95 %, k=2) |
|                                         |                    | Vertical                                     | 3.4 dB (The confidential level is 95 %, k=2) |
|                                         | 30 MHz ~ 1 000 MHz | Horizontal                                   | 4.5 dB (The confidential level is 95 %, k=2) |
|                                         |                    | Vertical                                     | 5.1 dB (The confidential level is 95 %, k=2) |
|                                         | 1 GHz ~ 18 GHz     | Horizontal                                   | 3.7 dB (The confidential level is 95 %, k=2) |
|                                         |                    | Vertical                                     | 3.9 dB (The confidential level is 95 %, k=2) |

**- Dongtan Laboratory**

| Test Method                 |                                     | Measurement Uncertainty                         |                                                 |
|-----------------------------|-------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Conducted Emission          |                                     | ENV216                                          | 3.5 dB (The confidential level is 95 %, $k=2$ ) |
|                             |                                     | ESH2-Z5                                         | 3.3 dB (The confidential level is 95 %, $k=2$ ) |
|                             |                                     | ESH3-Z6                                         | 3.3 dB (The confidential level is 95 %, $k=2$ ) |
|                             |                                     | NNLK8129                                        | 3.4 dB (The confidential level is 95 %, $k=2$ ) |
| Conducted Emission - Signal |                                     | ISN T800                                        | 5.7 dB (The confidential level is 95 %, $k=2$ ) |
|                             |                                     | ISN ST08                                        | 5.5 dB (The confidential level is 95 %, $k=2$ ) |
| Discontinuous               |                                     | 2.9 dB (The confidential level is 95 %, $k=2$ ) |                                                 |
| disturbance Power           |                                     | 3.9 dB (The confidential level is 95 %, $k=2$ ) |                                                 |
| Radiated Emission           | 9 kHz ~30 MHz<br>(Triple Loop Ant.) | 3.4 dB (The confidential level is 95 %, $k=2$ ) |                                                 |
|                             | 9 kHz ~30 MHz<br>(Loop Ant.)        | Horizontal                                      | 3.8 dB (The confidential level is 95 %, $k=2$ ) |
|                             |                                     | Vertical                                        | 3.8 dB (The confidential level is 95 %, $k=2$ ) |
|                             | 30 MHz ~ 1 000 MHz                  | Horizontal                                      | 4.8 dB (The confidential level is 95 %, $k=2$ ) |
|                             |                                     | Vertical                                        | 5.4 dB (The confidential level is 95 %, $k=2$ ) |
|                             | 1 GHz ~ 18 GHz                      | Horizontal                                      | 4.1 dB (The confidential level is 95 %, $k=2$ ) |
|                             |                                     | Vertical                                        | 4.2 dB (The confidential level is 95 %, $k=2$ ) |

**- End of Test Report -**