

# FCC 47 CFR PART 15 SUBPART B

## TEST REPORT

Test Report No. : OT-215-RED-145

Reception No. : 2104002308

Applicant : GEOMEXSOFT Co., Ltd.

Address : #305, 306, 307, GIMC, 882 BAKSA-RO SEO-MYEON, CHUNCHEON-SI, GANGWON-DO KOREA

Manufacturer : GEOMEXSOFT Co., Ltd.

Address : #305, 306, 307, GIMC, 882 BAKSA-RO SEO-MYEON, CHUNCHEON-SI, GANGWON-DO KOREA

Type of Equipment : GEOZIEL-AIR

Model Name : GMX-GAS\_SAFE-BT\_WIFI

FCC ID. : 2AZ4UGMX-GAS-SAFE

Multiple Model Name : N/A

Serial number : N/A

Total page of Report : 17 pages (including this page)

Date of Incoming : May 12, 2021

Date of Issuing : May 26, 2021

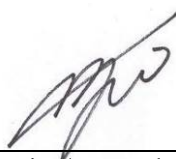
### SUMMARY

The equipment complies with the requirement of *FCC CFR 47 Part 15 Subpart B*.


This test report contains only the results of a single test of the sample supplied for the examination.

It is not a general valid assessment of the features of the respective products of the mass-production.

Reviewed by:

  
Eung-Chan, Kim / General Manager  
ONETECH Corp.

Approved by:

  
Gea-Won, Lee / Exe. Managing Director  
ONETECH Corp.

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**Revision History**

Rev. No.	Issued Report No.	Issued Date	Revisions	Section Affected
0	OT-215-RED-145	May 26, 2021	Initial Issue	All

\* Please contact us (e-mail: [info@onetech.co.kr](mailto:info@onetech.co.kr)) for verification of this test report.

## 1. VERIFICATION OF COMPLIANCE

-. APPLICANT : GEOMEXSOFT Co., Ltd.  
 -. ADDRESS : #305, 306, 307, GIMC, 882 BAKSA-RO SEO-MYEON, CHUNCHEON-SI, GANGWON-DO KOREA  
 -. Manufacturer : GEOMEXSOFT Co., Ltd.  
 -. ADDRESS : #305, 306, 307, GIMC, 882 BAKSA-RO SEO-MYEON, CHUNCHEON-SI, GANGWON-DO KOREA  
 -. MODEL NAME : GMX-GAS\_SAFE-BT\_WIFI  
 -. SERIAL NUMBER : N/A  
 -. BRAND/TRADE NAME : Airvaccine  
 -. DATE : May 26, 2021

EQUIPMENT CLASS	Class B digital devices
E.U.T. DESCRIPTION	GEOZIEL-AIR
MEASUREMENT PROCEDURES	ANSI C63.4: 2014
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
STANDARDS	FCC Part 15 (Class B)
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	None
FINAL TEST WAS CONDUCTED ON	3 m Semi anechoic chamber

ONETECH Corp. tested the above equipment in accordance with the requirements set forth in the above standard. The test results show that equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

## 2. TEST FACILITY

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at:

- 1) 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea
- 2) 12-5, Jinsaegol-gil 75 beon-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea

-. Site Filing:

VCCI (Voluntary Control Council for Interference) – Registration No. R-20122/ C-14617/ G-10666/ T-11842

ISED (Innovation, Science and Economic Development Canada) – Registration No. Site# 3736A-3

-. Site Accreditation:

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation No. KT085

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

These measurement tests were conducted at Onetech Corp.

The 10 m semi anechoic chamber and conducted measurement facilities are located on at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea.



### 3. PRODUCT INFORMATION

#### 3.1 Description of EUT

The GEOMEXSOFT Co., Ltd., Model GMX-GAS\_SAFE-BT\_WIFI (referred to as the EUT in this report) is a GEOZIEL-AIR. Product specification described herein was obtained from product data sheet or user's manual.

CHASSIS TYPE	Plastic	
LIST OF EACH OSC. or CRY. FREQ. (FREQ. $\geq$ 1 MHz)	80 MHz	
RF FREQUENCY	Wi-Fi	2 412 ~ 2 462 MHz
	Bluetooth LE	2 402 ~ 2 480 MHz
	(Module model name: ESP32-WROOM-32E) (This has been certified. Report No.: RSHD200218007-00A)	
P. C. Board name	-	
NUMBER OF PCB LAYERS	-	
ELECTRICAL RATING	DC 5 V (Input: 120 Vac, 60 Hz)	
EXTERNAL CONNECTOR	USB Type C	

#### 3.2 Model Differences

-. The following lists consist of the added models and their differences.: None

#### 3.3 Support Equipment

The model numbers for all the equipment that were used in the tested system is:

Description	Model	Manufacturer	Connected to
GEOZIEL-AIR (EUT)	GMX-GAS_SAFE-BT_WIFI	GEOMEXSOFT Co., Ltd.	ADAPTER
ADAPTER	EP-TA20KBK	Dongguan Yingju Power Co., Ltd.	EUT
Smart phone	SM-G77NK	SAMSUNG	-

#### 3.4 System Configuration

DEVICE TYPE	MODEL/PART NUMBER	MANUFACTURER	FCC ID
GEOZIEL-AIR	GMX-GAS_SAFE-BT_WIFI	GEOMEXSOFT Co., Ltd.	2AZ4UGMX-GAS-SAFE

#### 3.5 Cable Description

Ports Name	Shielded	Ferrite Bead	Metal Shell	Length (m)	Connected to
USB Type C	N	N	N	0.8	ADAPTER

#### 3.6 Equipment Modifications

-. None

## 4. DESCRIPTION OF TESTS

### 4.1 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4: 2014.

Radiated testing was performed at a distance of 3 m from EUT to the antenna.

### 4.2 Test Condition

The test conditions of the noted test mode(s) in this test report are;

- . The EUT was tested by operating both charging and gas detection at the same time.
- . Test Voltage / Frequency: AC 120 V / 60 Hz
- . Test Mode(s)

Operating Mode 1	Charging + GAS Detecting Mode
------------------	-------------------------------

### 4.3 Conducted Emission

The EUT was placed on a non-conductive 2.5 m × 1.5 m table, which is 0.8 m in height above the reference ground plane and 0.4 m away from the vertical conducting plane (over 2 m × 2 m) that is bonded to the reference ground plane. The power of EUT is fed through a 50 Ω/ 50 μH + 5 Ω LISN and all support equipment is powered from another LISN. Powers to the LISN are filtered by high-current high insertion loss power line filter.

Sufficient time for EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition.

The RF output of the LISN was connected to the EMI test receiver.

Exploratory measurements were conducted to identify the highest emission by operating the EUT in a range of typical modes of operation, cable positions, system configuration and arrangement.

Based on exploratory measurements, the final measurements were conducted at the worst test conditions.

Exploratory measurements were scanned using Peak mode of EMI Test receiver from 150 kHz to 30 MHz with 20 ms sweep time. The final measurements were measured with Quasi-Peak and CISPR-Average mode.

The bandwidth of EMI Test Receiver was set to 9 kHz. Interface cables were connected to the available interface ports of the test unit. Excess cable lengths were bundled at center with 30 cm ~ 40 cm.

### 4.4 Radiated Emission

Exploratory Radiated measurements were conducted at the 3 m semi anechoic chamber in order to identify the highest emission by operating the EUT in a range of typical modes of operation, cable positions, system configuration and arrangement.

Based on exploratory measurements, the final measurements were conducted at the worst test conditions.

Final measurements were made at 10 m semi anechoic chamber that complies with CISPR 16/ANSI C63.4.

Exploratory measurements were scanned using Peak mode of EMI Test receiver and final measurements were measured with Quasi-Peak mode (Below 1 GHz) and Peak & CISPR-Average mode (Above 1 GHz).

The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.



## 5. FINAL RESULT OF MEASUREMENT

Exploratory measurement was done in normal operation mode. And the final measurement was selected for the maximized emission level.

### 5.1 Conducted Emission Test

#### 5.1.1 Operating Environment

Temperature : 22.0 °C  
Relative humidity : 43.0 % R.H.

#### 5.1.2 Test Setup

The EUT and all local support equipment were placed on a non-conductive table, 0.8 m height above the reference ground plane. The EUT was fed by dc power supply through a 50  $\Omega$  / 50  $\mu$ H + 5  $\Omega$  Artificial Mains Network (AMN). The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

#### 5.1.3 Measurement uncertainty

Conducted emission, quasi-peak detection :  $\pm 3.9$  dB  
Conducted emission, CISPR average detection :  $\pm 3.9$  dB

Measurement uncertainty is calculated in accordance with CISPR 16-4-2. The measurement uncertainty is given with a confidence of 95 % with the coverage factor,  $k = 2$ .

#### 5.1.4 Limit

Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	CISPR Average
0.15 ~ 0.5	66 to 56*	56 to 46*
0.5 ~ 5	56	46
5 ~ 30	60	50
* Decreases with the logarithm of the frequency		

#### 5.1.5 Test Equipment used

Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
■ - ESCI	Rohde & Schwarz	Test Receiver	101420	Mar. 23, 2021 (1Y)
■ - LT32C/10	Afj Instruments	LISN	32032039322	Oct. 22, 2020 (1Y)
■ - 11947A	Hewlett Packard	Transient Limiter	3107A02762	Mar. 22, 2021 (1Y)

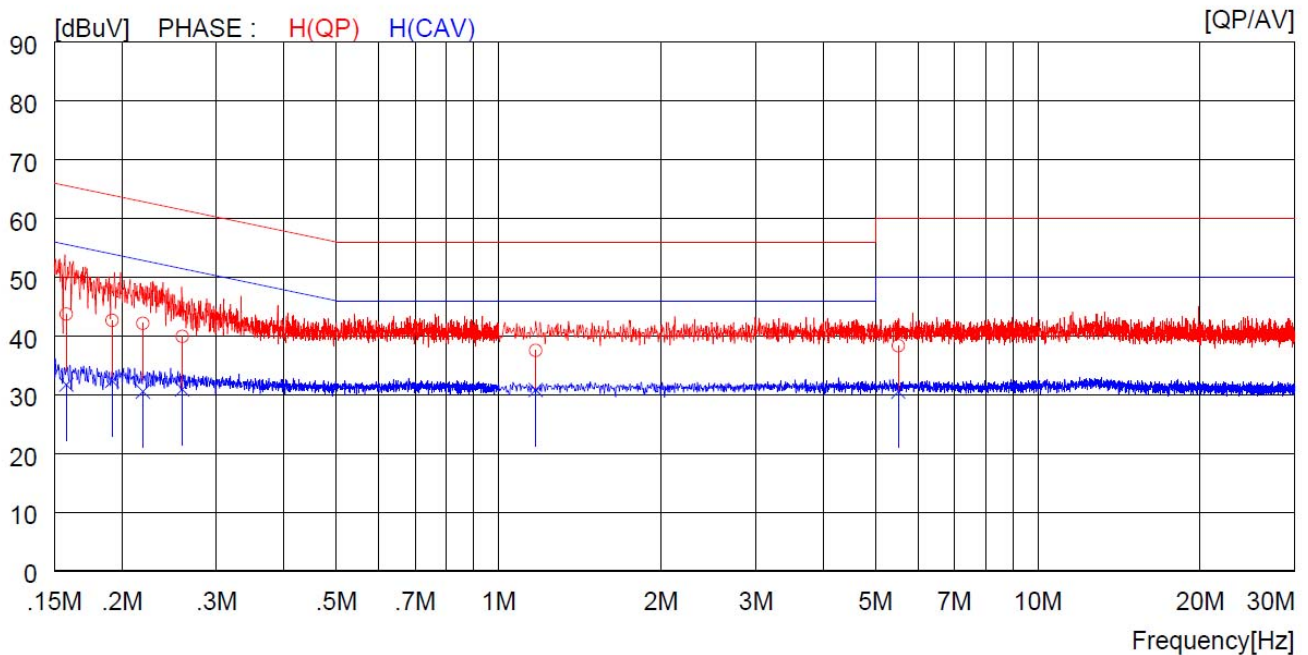
All test equipment used is calibrated on a regular basis.

### 5.1.6 Test Data

-. Test Result : Pass

Tested by: Ban-Seok, Lee / Project Engineer

Operating Mode 1 (Charging + GAS Detecting Mode)			
Frequency range	: 0.15 MHz ~ 30 MHz	Test Date	: May 21, 2021
Resolution bandwidth	: 9 kHz	Tested Line	: HOT LINE

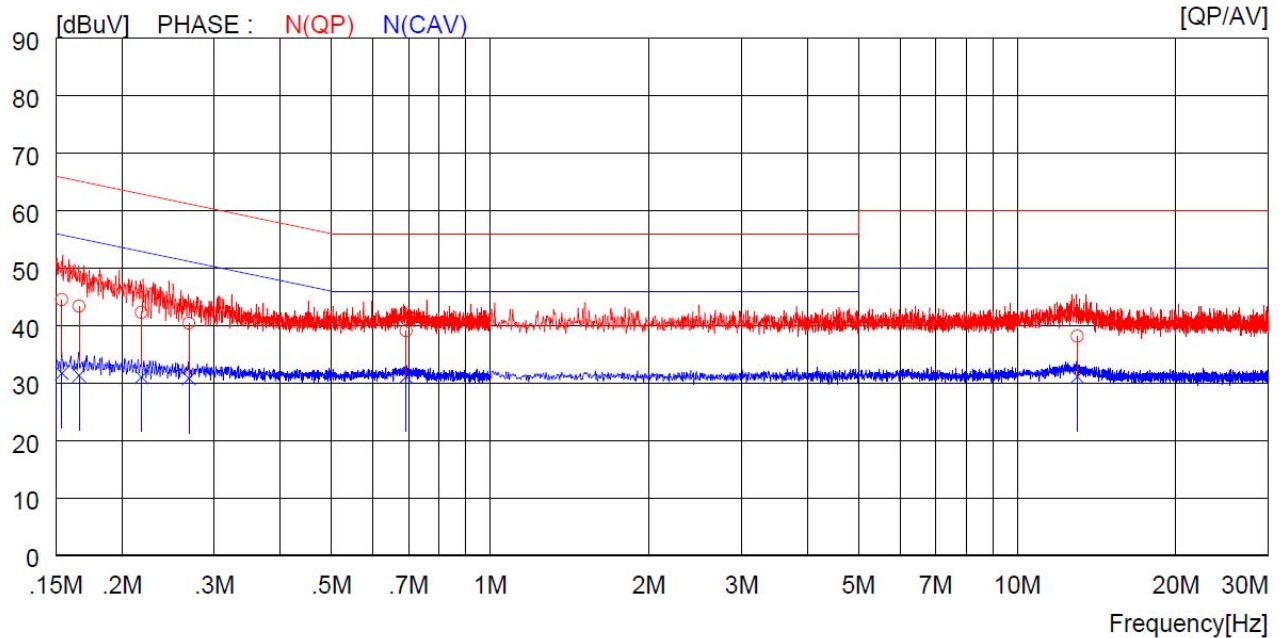


NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15800	22.2	----	21.5	43.7	----	65.6	----	21.9	----	H (QP)
2	0.19200	21.1	----	21.5	42.6	----	63.9	----	21.3	----	H (QP)
3	0.21900	20.6	----	21.5	42.1	----	62.9	----	20.8	----	H (QP)
4	0.25900	18.4	----	21.5	39.9	----	61.5	----	21.6	----	H (QP)
5	1.17200	15.9	----	21.6	37.5	----	56.0	----	18.5	----	H (QP)
6	5.51500	16.6	----	21.7	38.3	----	60.0	----	21.7	----	H (QP)
7	0.15800	----	10.2	21.5	----	31.7	----	55.6	----	23.9	H (CAV)
8	0.19200	----	10.8	21.5	----	32.3	----	53.9	----	21.6	H (CAV)
9	0.21900	----	9.0	21.5	----	30.5	----	52.9	----	22.4	H (CAV)
10	0.25900	----	9.4	21.5	----	30.9	----	51.5	----	20.6	H (CAV)
11	1.17200	----	9.2	21.6	----	30.8	----	46.0	----	15.2	H (CAV)
12	5.51500	----	8.8	21.7	----	30.5	----	50.0	----	19.5	H (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The result level in above table is included the transducer factor that means insertion loss (AMN), cable loss and attenuator.

Operating Mode 1 (Charging + GAS Detecting Mode)			
Frequency range	: 0.15 MHz ~ 30 MHz	Test Date	: May 21, 2021
Resolution bandwidth	: 9 kHz	Tested Line	: NEUTRAL LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15400	23.0	----	21.5	44.5	----	65.8	----	21.3	----	N (QP)
2	0.16600	21.9	----	21.5	43.4	----	65.2	----	21.8	----	N (QP)
3	0.21800	20.8	----	21.5	42.3	----	62.9	----	20.6	----	N (QP)
4	0.26800	18.9	----	21.5	40.4	----	61.2	----	20.8	----	N (QP)
5	0.69300	17.6	----	21.5	39.1	----	56.0	----	16.9	----	N (QP)
6	13.01000	16.5	----	21.6	38.1	----	60.0	----	21.9	----	N (QP)
7	0.15400	----	10.2	21.5	----	31.7	----	55.8	----	24.1	N (CAV)
8	0.16600	----	9.8	21.5	----	31.3	----	55.2	----	23.9	N (CAV)
9	0.21800	----	9.5	21.5	----	31.0	----	52.9	----	21.9	N (CAV)
10	0.26800	----	9.3	21.5	----	30.8	----	51.2	----	20.4	N (CAV)
11	0.69300	----	9.6	21.5	----	31.1	----	46.0	----	14.9	N (CAV)
12	13.01000	----	9.5	21.6	----	31.1	----	50.0	----	18.9	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The result level in above table is included the transducer factor that means insertion loss (AMN), cable loss and attenuator.

## 5.2 Radiated Emission Test

### 5.2.1 Operating Environment

Temperature : 24.0 °C  
Relative humidity : 48.0 % R.H.

### 5.2.2 Test Setup

The radiated emissions measurements were on the 10 m semi anechoic chamber. The EUT and all local support equipments were placed on a non-conductive turntable approximately 0.8 m above the ground plane.

The frequency spectrum from 30 MHz to 1 000 MHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

### 5.2.3 Measurement uncertainty

Radiated emission electric field intensity, 30 MHz ~ 1 000 MHz : ± 4.6 dB

Radiated emission electric field intensity, 1 GHz ~ 6 GHz : ± 6.0 dB

Measurement uncertainty is calculated in accordance with CISPR 16-4-2. The measurement uncertainty is given with a confidence of 95 % with the coverage factor,  $k = 2$ .

### 5.2.4 Limit

-. FCC Part 15 Subpart B

Frequency of Emission (MHz)	Resolution bandwidth	Field strength @ 3 m (dBμV/m)	
30 ~ 88 88 ~ 216 216 ~ 230 230 ~ 960 960 ~ 1 000	120 kHz	Quasi-peak	
		40.0	
		43.5	
		46.0	
		46.0	
		54.0	
> 1 000	1 MHz	Peak Limit	CISPR Average Limit
		74.0	54.0

### 5.2.5 Test Equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
■	ESR	Rohde & Schwarz	Test Receiver	102190	Oct. 14, 2020 (1Y)
■ -	VULB9163	Schwarzbeck	Trilog Broadband Antenna	9163-225	Sep. 14, 2020 (2Y)
■ -	3115	ETS-LINDGREN	Horn Antenna	34823	Aug. 14, 2020 (1Y)
■ -	8447D	Hewlett Packard	Amplifier	2944A07777	Mar. 15, 2021 (1Y)
■ -	PAM-118A	Com-Power	Amplifier	18040081	Oct. 12, 2020 (1Y)
■ -	CO3000	Innco Systems GmbH	Controller	N/A	N/A
■ -	DT5000	Innco Systems GmbH	Turn Table	N/A	N/A
■ -	MA4000-EP	Innco Systems GmbH	Antenna Master	N/A	N/A
■ -	MA4640-XPET	Innco Systems GmbH	Antenna Master	N/A	N/A

All test equipment used is calibrated on a regular basis.

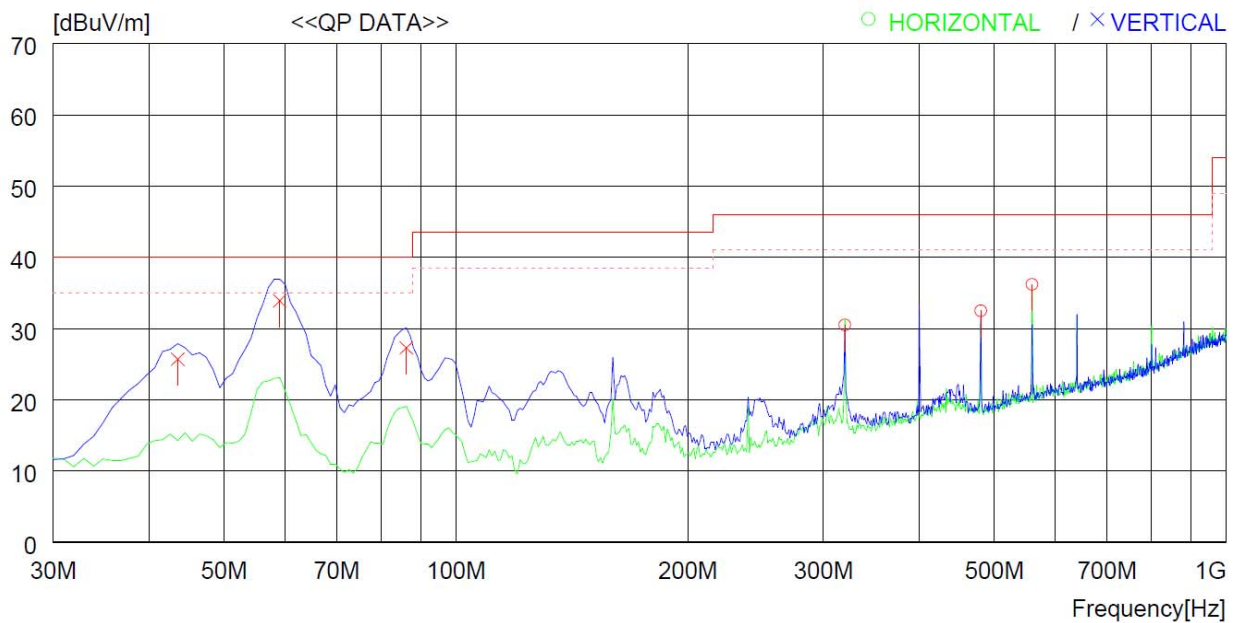
## 5.2.6 Test Data

-. Test Result : Pass



Tested by: Ban-Seok, Lee / Project Engineer

Operating Mode 1 (Charging + GAS Detecting Mode)			
Frequency range	: 30 MHz ~ 1 000 MHz	Applied Standards	: FCC Part 15 Subpart B
Resolution bandwidth	: 120 kHz	Test Date	: May 19, 2021
Detector Mode	: Quasi-Peak	Measurement distance	: 3 m



No.	FREQ	READING QP	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	320.030	38.2	13.8	6.2	27.7	30.5	46.0	15.5	200	359
2	480.081	35.9	17.0	8.2	28.6	32.5	46.0	13.5	200	359
3	559.619	37.7	18.3	8.9	28.7	36.2	46.0	9.8	200	43
----- Vertical -----										
4	43.580	37.9	14.0	2.1	28.3	25.7	40.0	14.3	100	4
5	59.100	46.2	13.5	2.5	28.3	33.9	40.0	6.1	100	0
6	86.260	43.3	9.1	3.1	28.2	27.3	40.0	12.7	100	2

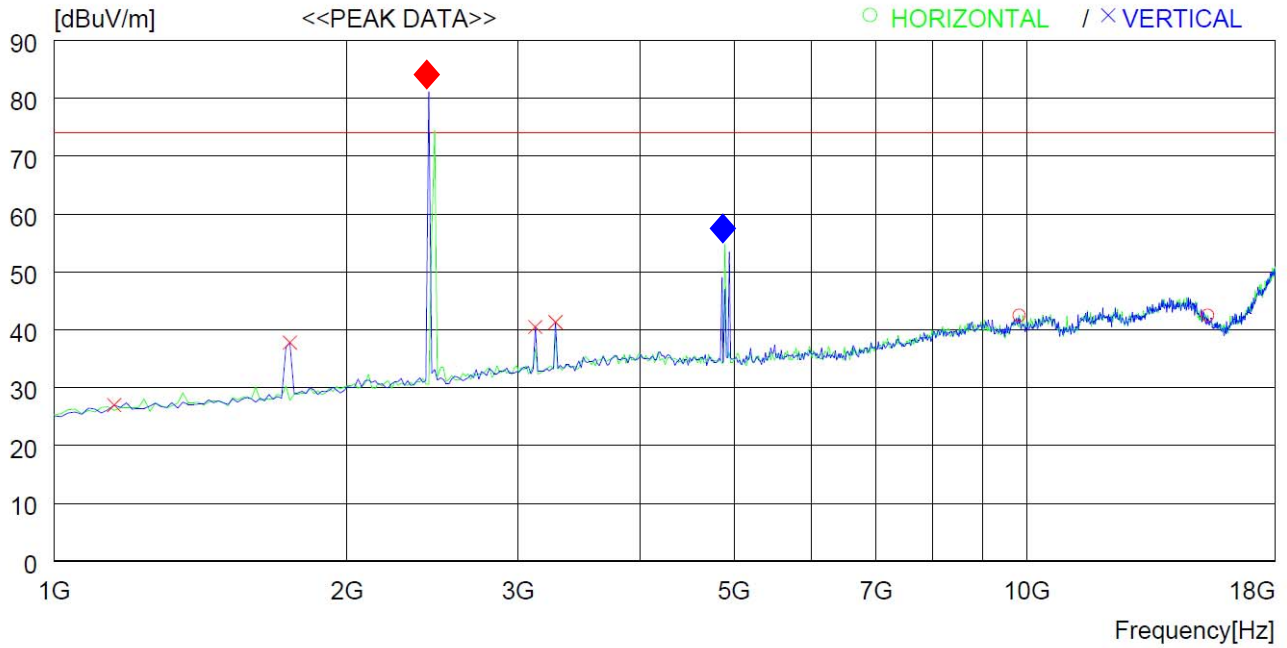
Remark: Margin (dB) = Limit – Result

Result = Reading Quasi-Peak + Antenna Factor + Loss – Gain

Loss and Gain in above table means Cable Loss and Pre-amplifier gain.



Operating Mode 1 (Charging + GAS Detecting Mode)			
Frequency range	: 1 GHz ~ 18 GHz	Test Date	: May 19, 2021
Resolution bandwidth	: 1 MHz	Measurement distance	: 3 m
Detector Mode	: Peak		



No.	FREQ [MHz]	READING [dBuV]	ANT PEAK FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	9823.000	43.5	38.0	7.0	46.0	42.5	74.0	31.5	100	0
2	15348.000	41.1	38.7	8.7	46.0	42.5	74.0	31.5	100	26
----- Vertical -----										
3	1153.000	45.1	24.5	2.3	44.9	27.0	74.0	47	100	0
4	1748.000	53.8	26.4	2.8	45.2	37.8	74.0	36.2	100	179
5	3125.000	52.2	30.4	3.8	45.9	40.5	74.0	33.5	100	213
6	3278.000	52.5	30.7	4.0	45.9	41.3	74.0	32.7	100	0

Remark: Margin (dB) = Limit – Result

Result = Reading Peak + Antenna Factor + Loss – Gain

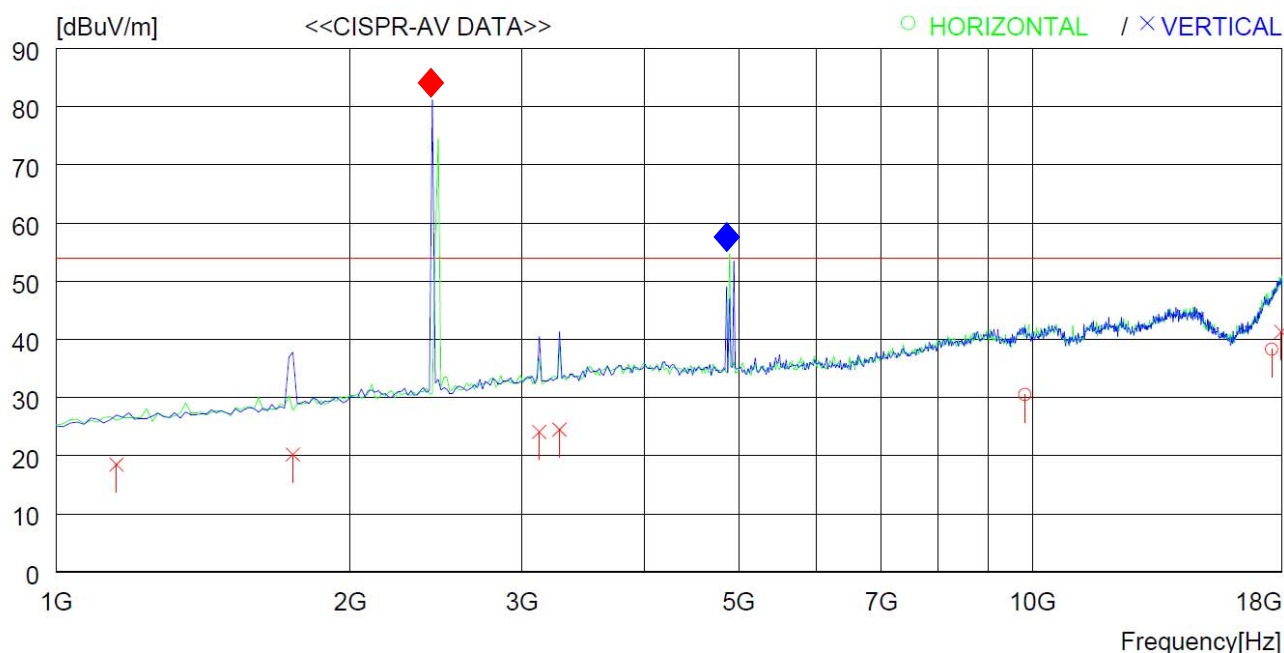
Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

\* Radiated emissions (Tx/Rx frequencies) from the transceiver shall be ignored.

Bluetooth: 2 402 ~ 2 480 MHz, Wi-Fi: 2 412 ~ 2 462 MHz

\* Exclusion band Carrier Frequency: ◆ , Exclusion band Harmonic Frequency: ◆

Operating Mode 1 (Charging + GAS Detecting Mode)			
Frequency range	: 1 GHz ~ 18 GHz	Test Date	: May 19, 2021
Resolution bandwidth	: 1 MHz	Measurement distance	: 3 m
Detector Mode	: CISPR-Average		



No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	9823.000	31.5	38.0	7.0	46.0	30.5	54.0	23.5	100	0
2	17575.000	30.0	44.7	9.6	46.0	38.3	54.0	15.7	100	0
----- Vertical -----										
3	1153.000	36.6	24.5	2.3	44.9	18.5	54.0	35.5	100	0
4	1748.000	36.2	26.4	2.8	45.2	20.2	54.0	33.8	100	179
5	3125.000	35.8	30.4	3.8	45.9	24.1	54.0	29.9	100	213
6	3278.000	35.7	30.7	4.0	45.9	24.5	54.0	29.5	100	0
7	17966.000	30.3	47.2	9.7	45.9	41.3	54.0	12.7	100	0

Remark: Margin (dB) = Limit – Result

Result = Reading CISPR-Average + Antenna Factor + Loss – Gain

Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

\* Radiated emissions (Tx/Rx frequencies) from the transceiver shall be ignored.

Bluetooth: 2 402 ~ 2 480 MHz, Wi-Fi: 2 412 ~ 2 462 MHz

\* Exclusion band Carrier Frequency: ◆ , Exclusion band Harmonic Frequency: ◆



## 6. SAMPLE CALCULATIONS

$$\text{dB}\mu\text{V} = 20 \text{ Log}_{10}(\mu\text{V})$$

$$\text{Margin} = \text{Limit} - \text{Result}$$

-. Example 1: 0.69300 MHz

Class B Limit	= 46.0 dB $\mu$ V (CISPR-Average)
Reading	= 9.6 dB $\mu$ V
Correction Factor	= LISN + Cable Loss + Pulse Limiter
	= 21.5 dB
Total	= 31.1 dB $\mu$ V
Margin	= 46.0 dB $\mu$ V – 31.1 dB $\mu$ V
	= 14.9 dB

-. Example 2: 59.110 MHz

Class B Limit	= 40.0 dB $\mu$ V/m (Quasi-Peak)
Reading	= 46.2 dB $\mu$ V
Correction Factor	= Antenna Factor (13.5 dB/m) + Cable Loss (2.5 dB) - Amp. Gain (28.3 dB)
	= -12.3 dB
Total	= 33.9 dB $\mu$ V/m
Margin	= 40.0 dB $\mu$ V/m – 33.9 dB $\mu$ V/m
	= 6.1 dB