



# 시험성적서 TEST REPORT

페이지(page) : ( 1 ) / ( 총(Total) 21 )

성적서 번호 Report No.	ICRT-TR-E242702-0B				
신청자 Client	기관명 Name	SIA Hackmotion			
	주 소 Address	Aleksandra Čaka iela 105 - 18, Rīga, LV-1011, Latvija			
시험대상품목 Sample description	Wearable sensor system				
모델명 Type designation	HM-U-3				
정격 Ratings	5 VDC, 0.08 A USB-C (adapter not included)				
시험장소 Place of test	<input checked="" type="checkbox"/> 고정시험실(Permanent Testing Lab) <input type="checkbox"/> 현장시험(On Site Testing) 주소지(Address): 112, Hwanggeum3-ro 7beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea				
시험기간 Date of test	2024. 09. 26 ~ 2024. 09. 27				
시험방법/항목 Test Method/Item	FCC 47 CFR Part 15, Subpart B / Other Class B digital devices & peripherals				
시험결과 Test Results	Refer to summary of test results				
확인 Affirmation	작성자 Tested by 성명 Name	기술책임자 Technical Manager 성명 Name	박명철 Park, Myeongcheol 성명 Name		
	정우람 Jeong, Wooram(Signature)		박명철 Park, Myeongcheol (Signature)		

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 This is certified that the above mentioned products have been tested for the sample.

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 The above test report is not related to accreditation by KS Q ISO/IEC 17025 and Korea Laboratory Accreditation scheme.

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2025. 03. 05

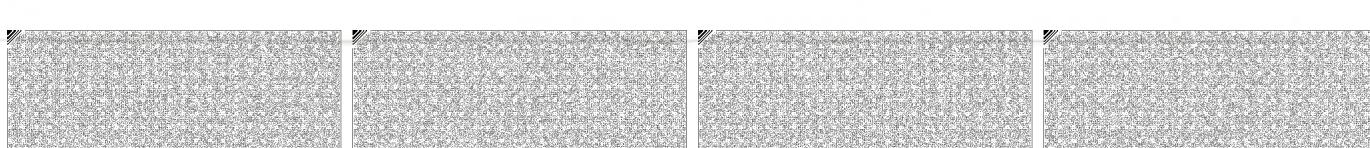
주식회사 아이씨알 대표이사

The head of INTERNATIONAL CERTIFICATION REGISTRAR

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The authenticity of the test report can be checked on the G4B or ICR website.

경기도 김포시 양촌읍 황금 3로 7번길 112 / Tel: 02-6351-9001 ~ 6





페이지(page) : ( 2 ) / ( 총(Total) 21 )

## Contents

1. Applicant Information.....	3
1.1 Applicant .....	3
1.2 Manufacture .....	3
2. Laboratory .....	3
2.1 Information.....	3
3. Revision History .....	3
4. EUT 4	
4.1 Used equipment.....	4
4.2 Test Configuration .....	4
4.3 Cable List.....	4
4.4 Mode of Operating during the test .....	4
4.5 EUT Modifications .....	4
4.6 Family Model Name .....	4
5. Summary of test result .....	5
5.1 Test Summary .....	5
6. Test Description .....	6
6.1 Facility .....	6
6.2 Test Procedure .....	6
7. EMISSION .....	8
7.1 Conducted emission.....	8
7.2 Radiated emission.....	12
Attachment I.....	16





페이지(page) : ( 3 ) / ( 총(Total) 21 )

## 1. Applicant Information

### 1.1 Applicant

Applicant : SIA Hackmotion  
 Address : Aleksandra Čaka iela 105 - 18, Rīga, LV-1011, Latvija

### 1.2 Manufacture

Manufacture : SIA Hackmotion  
 Address : Aleksandra Čaka iela 105 - 18, Rīga, LV-1011, Latvija

## 2. Laboratory

### 2.1 Information

Laboratory : ICR Co., Ltd  
 Address : 112, Hwanggeum3-ro 7beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea  
 Telephone No. : +82-2-6351-9001  
 Facsimile No. : +82-2-6351-9007  
 KOLAS No. : KT652  
 RRA No. : KR0165

## 3. Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
ICRT-TR-E242702-0A	2024. 10. 07	First issue.	-
ICRT-TR-E242702-0B	2025. 03. 05	Applicant's trade name has been changed. (Hackmotion SIA -> SIA Hackmotion)	-





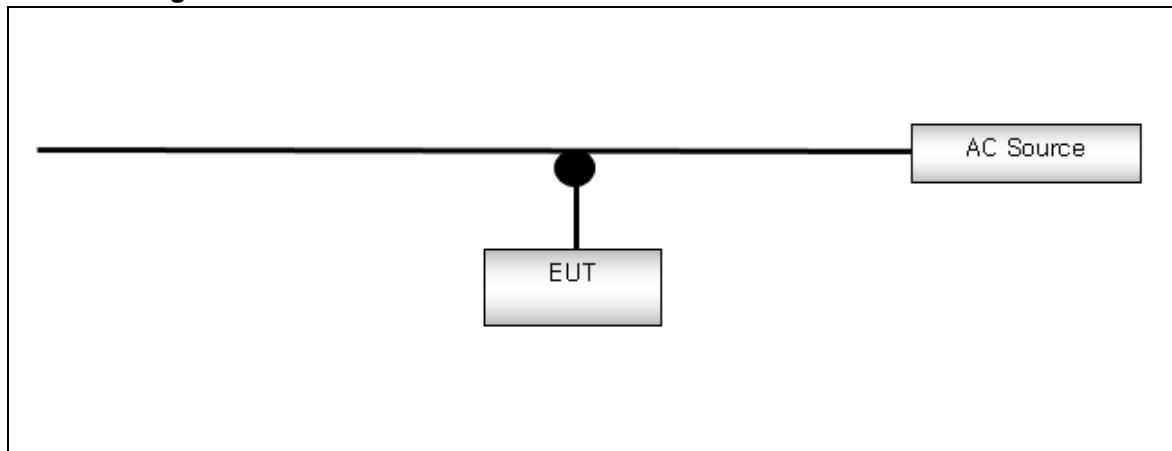
페이지(page) : ( 4 ) / ( 총(Total) 21 )

## 4. EUT

### 4.1 Used equipment

Description	Model	Serial No.	Manufacturer	Comments
Wearable sensor system	HM-U-3	-	SIA Hackmotion	EUT
Adapter	ETA0U83KWK	RT1G710LS/A-E	RFTech Co.,Ltd.	AE

### 4.2 Test Configuration



### 4.3 Cable List

Equipment	Port	Equipment	Port	Length (m)	Shielded
EUT	DC IN	Adapter	DC OUT	0.15	Shielded

### 4.4 Mode of Operating during the test

[MODE 1] : Test the product by connecting the EUT as shown in the diagram and keeping it continuously charged.

### 4.5 EUT Modifications

- None.

### 4.6 Family Model Name

- None.





페이지(page) : ( 5 ) / ( 총(Total) 21 )

## 5. Summary of test result

### 5.1 Test Summary

Standard	Test items	Applied	Results
FCC Part 15.107	Conducted emission	<input checked="" type="checkbox"/>	Pass
FCC Part 15.109	Radiated emission	<input checked="" type="checkbox"/>	Pass

\* The data in this test report are traceable to the national or international standards.

#### Frequency range to be scanned:

0.15 MHz to 30 MHz as Conducted measurement

5<sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower as Radiated measurement

#### Bandwidth:

Measured by the CISPR quasi-peak function Bandwidth is 9 kHz in the frequency 0.15 MHz ~ 30 MHz and 120 kHz in the frequency 30 MHz ~ 1 000 MHz.

Measured by the CISPR Peak function Bandwidth is 1 MHz in the frequency 1 GHz ~ 40 GHz.

The EUT is powered by a vehicle battery, and the conduction disturbance test is excluded.

- Maximum operating frequency: 108 MHz or higher
- Highest frequency used in the device : 2 480 MHz
- RF Module FCC certified (FCC ID : QQQ-GM240P, Model : BGM240P22A)





## 6. Test Description

### 6.1 Facility

All the testing facilities are periodically serviced as a daily check for equipment and cables systems, an every 6 months facility check for the facilities and a monthly check and annual calibration for testing equipment according to ISO/IEC 17025. All the testing facilities are used as the same specifications shown below. There are descriptions both for radiated disturbance measurement and conducted disturbance measurement conformed by ANSI C 63.4-2014.

### 6.2 Test Procedure

#### 6.2.1 Radiated Disturbance Measurements – Below 1 GHz

- Test site is met the requirements of ANSI C 63.4-2014 and the distance between the EUT and the antenna is adjusted 3 m/10 m.
- The turntable can be rotated 360 degrees.
- The antenna can be adjusted between 1 m and 4 m in height above the ground.
- The EUT is placed on the non-conducting table with 0.8 m height on the turntable.
- Measurements are carried out using a EMI test receiver with peak detectors (100 kHz bandwidth) and an EMI receiver with quasi-peak detectors(120 kHz bandwidth).
- Refer to the list of test equipment used for the test.
- Trilog antenna are used as Broadband antenna.
- The Trilog antenna is used in the frequency range of 30 ~ 1 000MHz, the Horn antenna is used in the frequency range of 1 GHz ~ 18 GHz.
- A variable attenuator is used for verifying amplifier's linearity.
- Rotating the turntable and adjusting the height of the antenna are carried out by control buttons on the console.
- Refer to "Brief Information"(page 4-5) about details of the EUT and configuration of the cables.
- Measurement is carried out by a ICR operator as manual operation.
- searching for some of High disturbance frequency points than the other points with the following settings;  
bandwidth 100 kHz, frequency range 10 MHz between 30 MHz and 300 MHz and frequency range 50 MHz between 300 MHz and 1 GHz.
- searching the worst direction with the maximum level of the disturbance wave in rotating the turntable 360 degrees at each searched frequency point.
- setting the height of the antenna with the maximum level of the disturbance wave from 1 m ~ 4 m.
- reading the disturbance level by the EMI receiver with quasi-peak detectors (120 kHz bandwidth) according to ANSI C 63.4-2014.
- measuring to vertical and horizontal polarization.
- calculating the measurement result with the following formula or equation:  
[Measurement result= measured value + Antenna factor + Cable loss - (Amp.)]

#### 6.2.2 Radiated Disturbance Measurements – Above 1 GHz

- Test site is met the requirements of ANSI C 63.4-2014 and the distance between the EUT and the antenna is adjusted 3 m.
- The turntable can be rotated 360 degrees.
- The antenna can be adjusted between 1 m in height above the ground.
- The EUT is placed on the non-conducting table with 1 m height on the turntable.
- Measurements are carried out using a EMI test receiver with peak detectors (1 MHz bandwidth) and an EMI receiver with peak and average detectors(1 MHz bandwidth).
- Refer to the list of test equipment used for the test.
- HORN ANTENNA are used as WIDEBAND ANTENNA.
- The HORN ANTENNA is used in the frequency range of 1 GHz ~ 18 GHz.
- A variable attenuator is used for verifying amplifier's linearity.
- Rotating the turntable and adjusting the height of the antenna are carried out by control buttons on the console.
- Refer to "Brief Information"(page 4-5) about details of the EUT and configuration of the cables.





페이지(page) : ( 7 ) / ( 총(Total) 21 )

- Measurement is carried out by a ICR operator as manual operation.
- searching the worst direction with the maximum level of the disturbance wave in rotating the turntable 360 degrees at each searched frequency point.- setting the height of the antenna with the maximum level of the disturbance wave from 1 m
- reading the disturbance level by the EMI receiver with peak and average detectors (1 MHz bandwidth) according to ANSI C 63.4-2014.
- measuring to vertical and horizontal polarization.
- calculating the measurement result with the following formula or equation:  
[Measurement result= measured value + Antenna factor + Cable loss - (Amp.)]

#### **6.2.3 Conducted Disturbance Measurements**

- The measurement is carried out on an open site with horizontal and metallic ground plane.
- An AMN(Artificial Mains Network) with a nominal impedance ( $50 \Omega/50 \mu H$ ) as defined in ANSIC 63.4-2014., shall be utilized.
- The AMN is grounded on a horizontal metal ground plane.
- Measurement is carried out using an EMI receiver with quasi-peak detectors and average detector. (Refer to the List of test equipment used for the test.)
- The shortest distance between the EUT and the AMN is 0.8 m.
- The EUT is placed on the non-conducting table with 0.8 m height.
- A remote switch is used for changing phases between Line (L) and Neutral (N).
- Refer to "Brief Information"(page 4-5) about details of the EUT and configuration of the cables.
- Measurement is carried out as manual operation.
- detecting the maximized emission level using the maxhold function after setting the spectrum analyzer bandwidth 1 kHz and the frequency range from 150 kHz ~ 1 MHz, 1 MHz ~ 5 MHz and 5 MHz ~ 30 MHz.
- searching the maximum frequency point of the disturbance wave in each frequency range.
- reading the disturbance level of quasi-peak, average and Line (L) and Neutral (N) in 9 kHz bandwidth by the EMI receiver.
- calculating the measurement result with the following formula or equation.  
(Result = Reading + Corr)  
(Margin = Limit - Result)





페이지(page) : ( 8 ) / ( 총(Total) 21 )

## 7. EMISSION

### 7.1 Conducted emission

**Definition:**

The test assesses the ability of the EUT to limit its internal noise from being present on the AC mains Power and Signal Line In / Output ports.

**Test environment:**

Test method	:	FCC Part 15.107
Test Date	:	2024. 09. 27
Temperature, Humidity	:	24 °C, 44 % R.H.
Measurement Frequency range and RBW	:	150 kHz ~ 30 MHz
Test mode	:	MODE 1 (refer to 4.4)
$U_t$	:	AC 120 V, 60 Hz
Result		Pass

**A sample calculation:**

- Corr (correction factor) = LISN Insertion loss + Cable loss
- Emission Level = meter reading + Corr
- Sample calculation ; Live
- At Frequency: 0.546 MHz Result = Reading + Corr = 18.2 dB( $\mu$ V) + 9.8 dB = 28.00 dB( $\mu$ V)  
 Quasi-peak,  CISPR-Average)
- Measurement Data kept in ICR





페이지(page) : ( 9 ) / ( 총(Total) 21 )

Limits for conducted emissions from the AC mains ports of class A equipment.

Applicable to AC mains power port		
Frequency Range (MHz)	Quasi-Peak [dB(μV)]	CISPR-Average [dB(μV)]
0.15 ~ 0.5	79	66
0.5 ~ 30	73	60

Limits for conducted emissions from the AC mains ports of class B equipment.

Applicable to AC mains power port		
Frequency Range (MHz)	Quasi-Peak [dB(μV)]	CISPR-Average [dB(μV)]
0.15 ~ 0.5	66 ~ 56*	56 ~ 46*
0.5 ~ 5	56	46
5 ~ 30	60	50

\* Decreases with the logarithm of the frequency

Used equipments:

Used	Equipment	Model name	Manufacturer	Serial No.	Next Cal.
<input checked="" type="checkbox"/>	EMI Test Receiver	ESR7	R&S	102034	2025. 03. 28
<input checked="" type="checkbox"/>	LISN(main)	ENV216	R&S	102195	2025. 09. 12
<input type="checkbox"/>	LISN(sub)	ENV216	R&S	102194	2025. 05. 27
<input type="checkbox"/>	LISN	NNLK 8130	SCHWARZBECK	05184	2025. 07. 26
<input type="checkbox"/>	LISN	NNLK8121	SCHWARZBECK	8121-668	2024. 12. 07
<input type="checkbox"/>	LISN	NNB-4/200 X	Rolf Heine Hochfrequenztechnik	2001/009	2025. 06. 21
<input checked="" type="checkbox"/>	HUMIDITY/TEMP. DATA RECORDER	MHT-381SD	LUTRON	AI.63101	2025. 01. 05

Test Software:

Used	Description	Model name	Manufacturer	Version.
<input checked="" type="checkbox"/>	EMI Test Software	EMC32	R & S	10.01.02

Measurement Data:

- Refer to the Next page.

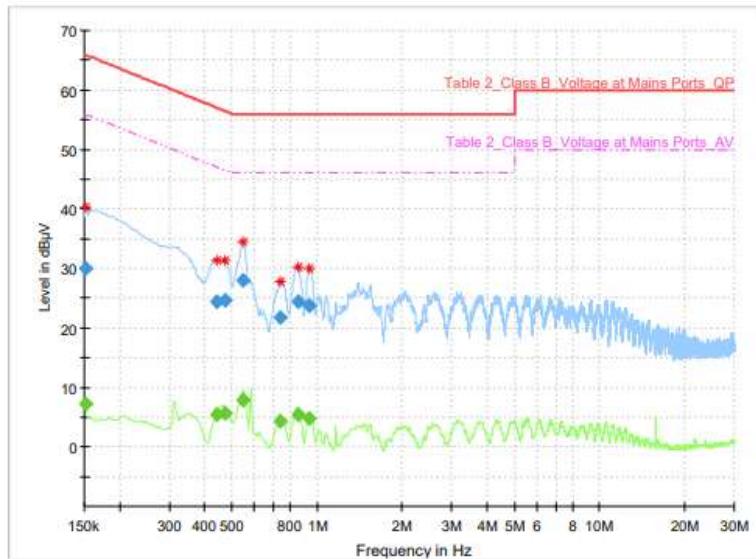




페이지(page) : ( 10 ) / ( 총(Total) 21 )

**DATA\_Live****Test Report****Common Information**

Test Description: 2024-4355  
 Test Site ICR Shield Room  
 Operator Name: J.W.R  
 Comment: CE\_L

**Final Result**

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	CAverage (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.152250	---	7.30	55.88	48.57	5000.0	9.000	L1	9.7
0.152250	30.09	---	65.88	35.78	5000.0	9.000	L1	9.7
0.442500	---	5.49	47.02	41.53	5000.0	9.000	L1	9.8
0.442500	24.48	---	57.02	32.53	5000.0	9.000	L1	9.8
0.471750	---	5.61	46.48	40.87	5000.0	9.000	L1	9.8
0.471750	24.61	---	56.48	31.87	5000.0	9.000	L1	9.8
0.546000	---	7.81	46.00	38.19	5000.0	9.000	L1	9.8
0.546000	28.00	---	56.00	28.00	5000.0	9.000	L1	9.8
0.739500	---	4.20	46.00	41.80	5000.0	9.000	L1	9.8
0.739500	21.78	---	56.00	34.22	5000.0	9.000	L1	9.8
0.856500	---	5.34	46.00	40.66	5000.0	9.000	L1	9.7
0.856500	24.44	---	56.00	31.56	5000.0	9.000	L1	9.7
0.942000	---	4.68	46.00	41.32	5000.0	9.000	L1	9.7
0.942000	23.71	---	56.00	32.29	5000.0	9.000	L1	9.7

2024-09-27

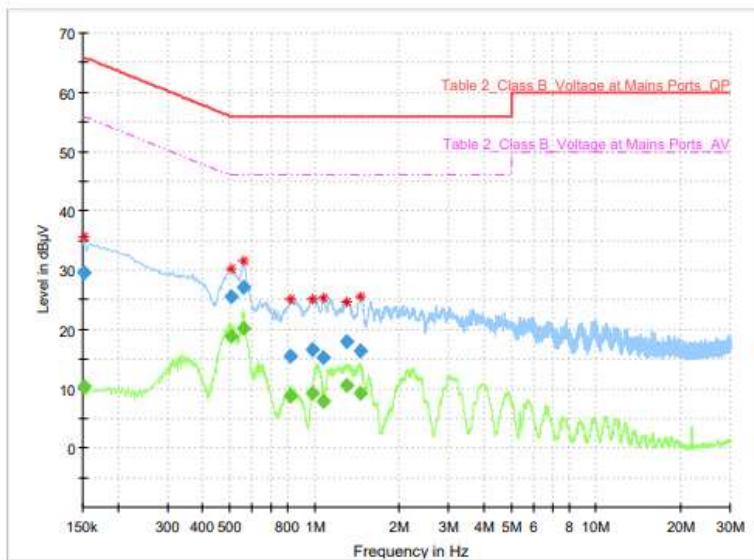




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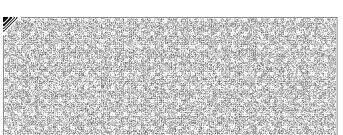
**DATA\_Neutral****Test Report****Common Information**

Test Description: 2024-4355  
 Test Site ICR Shield Room  
 Operator Name: J.W.R  
 Comment: CE\_NEUTRAL

**Final Result**

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	CAverage (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.152250	--	10.44	55.88	45.44	5000.0	9.000	N	9.7
0.152250	29.55	--	65.88	36.33	5000.0	9.000	N	9.7
0.503250	--	18.90	46.00	27.10	5000.0	9.000	N	9.8
0.503250	25.45	--	56.00	30.55	5000.0	9.000	N	9.8
0.561750	--	20.16	46.00	25.84	5000.0	9.000	N	9.8
0.561750	27.03	--	56.00	28.97	5000.0	9.000	N	9.8
0.822750	--	8.74	46.00	37.26	5000.0	9.000	N	9.7
0.822750	15.42	--	56.00	40.58	5000.0	9.000	N	9.7
0.978000	--	9.32	46.00	36.68	5000.0	9.000	N	9.7
0.978000	16.68	--	56.00	39.32	5000.0	9.000	N	9.7
1.074750	--	7.97	46.00	38.03	5000.0	9.000	N	9.7
1.074750	15.30	--	56.00	40.70	5000.0	9.000	N	9.7
1.295250	--	10.51	46.00	35.49	5000.0	9.000	N	9.7
1.295250	18.01	--	56.00	37.99	5000.0	9.000	N	9.7
1.450500	--	9.26	46.00	36.74	5000.0	9.000	N	9.7
1.450500	16.44	--	56.00	39.56	5000.0	9.000	N	9.7

2024-09-27





페이지(page) : ( 12 ) / ( 총(Total) 21 )

## 7.2 Radiated emission

### Definition:

The test assesses the ability of ancillary equipment to limit their internal noise from being radiated from the enclosure.

### Test environment:

Test method : FCC Part 15.109

Test Date : 2024. 09. 26

#### [Below 1 GHz]

Temperature, Humidity : 25 °C, 45 % R.H.

Measurement Distance : 3 m

Measurement RBW : 120 kHz

Measurement Frequency range : 30 MHz ~ 1 GHz

#### [Above 1 GHz]

Temperature, Humidity : 25 °C, 45 % R.H.

Measurement Distance : 3 m

Measurement RBW : 1 000 kHz

Measurement Frequency range : 1 GHz ~ 18 GHz

Test mode : MODE 1 (refer to 4.4)

Ut : AC 120 V, 60 Hz

Result : Pass

### A sample calculation:

- Corr (correction factor) = Ant. Factor + Cable loss – (Amp.)

- Emission Level = meter reading + Corr

- Sample calculation ; Below 1 GHz (Quasi-Peak)

At Frequency : 31.649 MHz Result = Reading + Corr = 45.52 dB(µV/m) + (-27.0) dB = 18.52 dB(µV/m)

- Sample calculation ; Above 1 GHz (CAverage)

At Frequency : 17 966.400 MHz Result = Reading + Corr = 21.41 dB(µV/m) + (15.2) dB = 36.61 dB(µV/m)

- Measurement Data kept in ICR





페이지(page) : ( 13 ) / ( 총(Total) 21 )

**Limits of below 1 GHz - CLASS A**

Frequency Range (MHz)	Field strength ( $\mu$ V/m)	Distance (m)
30 ~ 88	90	10
88 ~ 216	150	
216 ~ 960	210	
Above 960	300	

**Limits of below 1 GHz - CLASS B**

Frequency Range (MHz)	Field strength ( $\mu$ V/m)	Distance (m)
30 ~ 88	100	3
88 ~ 216	150	
216 ~ 960	200	
Above 960	500	

**Used equipments:****- Below 1 GHz**

Used	Equipment	Model name	Manufacturer	Serial No.	Next Cal.
<input checked="" type="checkbox"/>	EMI Test Receiver	ESR26	R&S	101461	2025. 03. 28
<input checked="" type="checkbox"/>	TRILOG BROAD BAND ANTENNA	VULB 9162	SCHWARZBEC K	120	2024. 12. 26
<input type="checkbox"/>	LOOP Antenna	HFH2-Z2	R&S	100506	2025. 06. 29
<input checked="" type="checkbox"/>	RF Pre Amplifier	SCU 08	R&S	100746	2025. 03. 28
<input checked="" type="checkbox"/>	HUMIDITY/TEMP. DATA RECORDER	MHT-381SD	LUTRON	AI.63107	2025. 01. 13

**- Above 1 GHz**

Used	Equipment	Model name	Manufacturer	Serial No.	Next Cal.
<input checked="" type="checkbox"/>	MXE EMI RECEIVER	N9038A	AGILENT	MY54450077	2025. 05. 20
<input checked="" type="checkbox"/>	HORN ANTENNA	HF907	R&S	102869	2025. 04. 04
<input checked="" type="checkbox"/>	RF Pre Amplifier	SCU 18	R&S	102342	2025. 03. 28
<input checked="" type="checkbox"/>	HUMIDITY/TEMP. DATA RECORDER	MHT-381SD	LUTRON	AI.63106	2025. 01. 13

**Test Software:**

Used	Description	Model name	Manufacturer	Version.
<input checked="" type="checkbox"/>	EMI Test Software	EMC32	R & S	10.01.00

**Measurement Data:**

- Refer to the Next page.

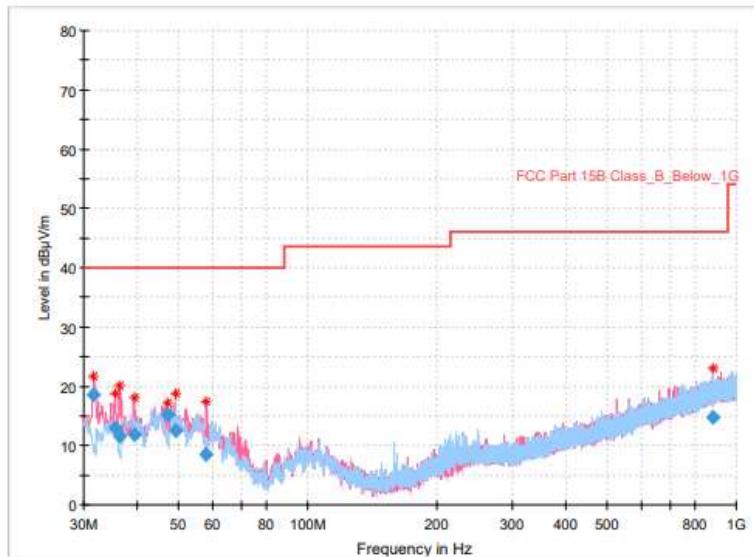




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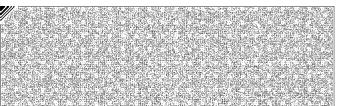
**DATA\_Below 1 GHz****Test Report****Common Information**

Test Description: 2024-4355  
 Operating Conditions: ICR 3 m Chamber  
 Operator Name: J.W.R  
 Comment: RE

**Final Result**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.649000	18.52	40.00	21.48	1000.0	120.000	100.0	V	228.0	-27.0
35.529000	12.87	40.00	27.13	1000.0	120.000	100.0	V	78.0	-26.0
36.402000	11.56	40.00	28.44	1000.0	120.000	100.0	V	2.0	-25.6
39.312000	11.74	40.00	28.26	1000.0	120.000	100.0	V	16.0	-24.5
46.975000	15.10	40.00	24.90	1000.0	120.000	100.0	V	34.0	-23.1
49.109000	12.53	40.00	27.47	1000.0	120.000	200.0	V	286.0	-23.0
58.033000	8.47	40.00	31.53	1000.0	120.000	100.0	V	78.0	-23.8
884.473000	14.73	46.00	31.27	1000.0	120.000	400.0	H	108.0	-10.4

2024-09-26

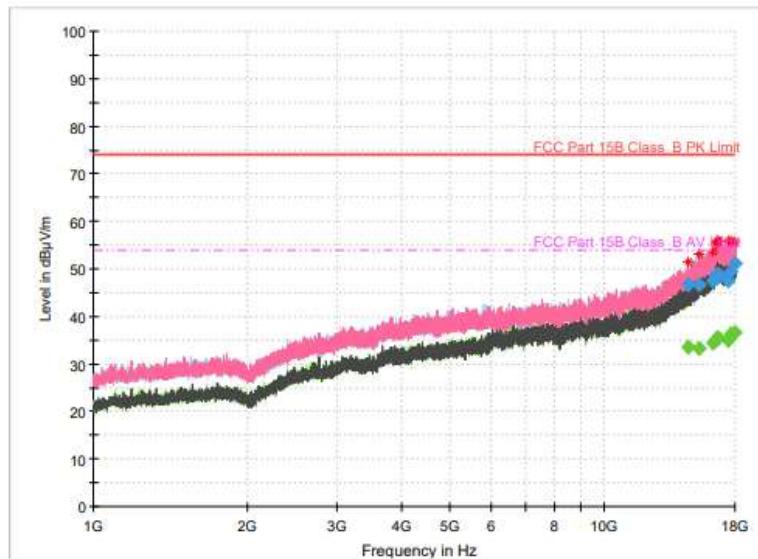




페이지(page) : ( 15 ) / ( 총(Total) 21 )

**DATA\_Above 1 GHz****Test Report****Common Information**

Test Description: 2024-4355  
 Test Site: ICR 3 m Chamber  
 Operator Name: J.W.R  
 Comment: RE Above

**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)
14554.800	---	33.60	54.00	20.40	7000.0	1000.000	200.0	V	161.0	11.5
14554.800	46.72	---	74.00	27.28	7000.0	1000.000	200.0	V	161.0	11.5
15301.200	---	33.19	54.00	20.81	7000.0	1000.000	300.0	H	27.0	12.3
15301.200	46.61	---	74.00	27.39	7000.0	1000.000	300.0	H	27.0	12.3
16339.200	47.62	---	74.00	26.38	7000.0	1000.000	200.0	V	269.0	12.4
16339.200	---	34.31	54.00	19.69	7000.0	1000.000	200.0	V	269.0	12.4
16500.000	---	34.88	54.00	19.12	7000.0	1000.000	100.0	V	179.0	12.8
16500.000	48.67	---	74.00	25.33	7000.0	1000.000	100.0	V	179.0	12.8
16610.400	48.03	---	74.00	25.97	7000.0	1000.000	300.0	V	0.0	13.3
16610.400	---	35.54	54.00	18.46	7000.0	1000.000	300.0	V	0.0	13.3
16707.600	---	35.44	54.00	18.56	7000.0	1000.000	300.0	H	136.0	13.5
16707.600	48.76	---	74.00	25.24	7000.0	1000.000	300.0	H	136.0	13.5
17416.800	---	34.87	54.00	19.13	7000.0	1000.000	300.0	V	141.0	14.0
17416.800	47.61	---	74.00	26.39	7000.0	1000.000	300.0	V	141.0	14.0
17625.600	49.50	---	74.00	24.50	7000.0	1000.000	100.0	H	0.0	14.6
17625.600	---	36.28	54.00	17.72	7000.0	1000.000	100.0	H	0.0	14.6
17966.400	51.15	---	74.00	22.85	7000.0	1000.000	300.0	V	0.0	15.2
17966.400	---	36.61	54.00	17.39	7000.0	1000.000	300.0	V	0.0	15.2

2024-09-26

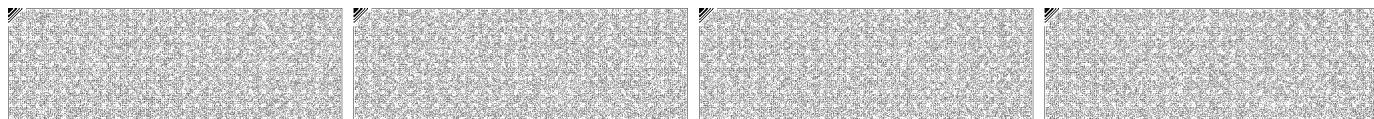




페이지(page) : ( 16 ) / ( 총(Total) 21 )

## Attachment I

## PHOTOGRAPHS





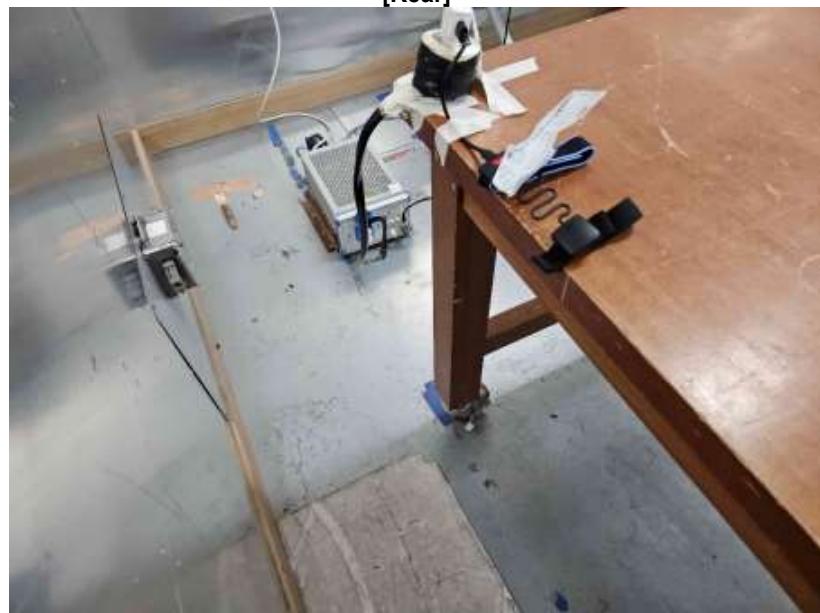
페이지(page) : ( 17 ) / ( 총(Total) 21 )

### Conducted emission

[Front]



[Rear]





페이지(page) : ( 18 ) / ( 총(Total) 21 )

### Radiated emission (Below 1 GHz)

[Front]



[Rear]

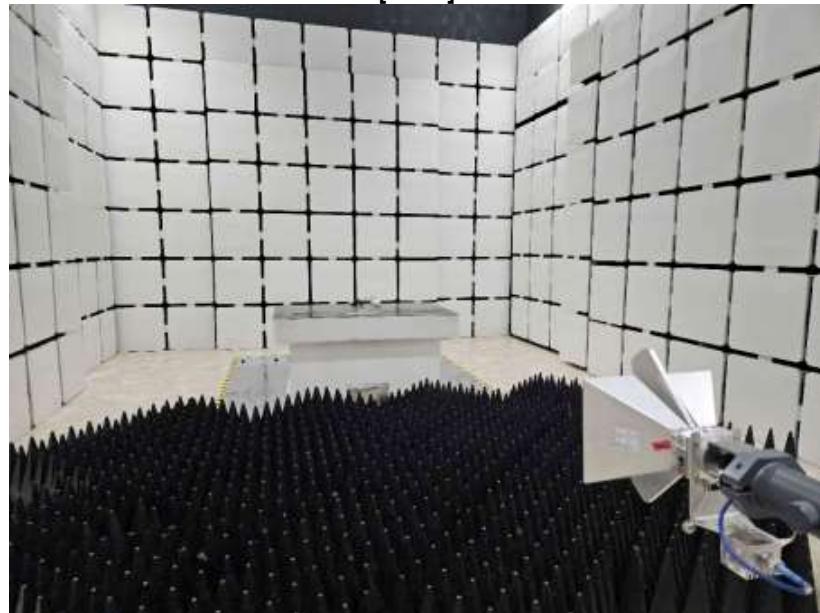




페이지(page) : ( 19 ) / ( 총(Total) 21 )

### Radiated emission (Above 1 GHz)

[Front]



[Rear]





페이지(page) : ( 20 ) / ( 총(Total) 21 )

**EUT Photo**

[Front]



[Rear]





페이지(page) : ( 21 ) / ( 총(Total) 21 )

[Inside # 1]



[Inside # 2]



- END -

