

# TEST REPORT

EMI Test for FCC SDoC of WHM200A Model

**APPLICANT**

SJIT Co.,Ltd

**REPORT NO.**

HCT-EM-2401-FC004

**DATE OF ISSUE**

January 18, 2024

Tested by  
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# TEST REPORT

EMI Test for  
FCC SDoC

**REPORT NO.**

HCT-EM-2401-FC004

**DATE OF ISSUE**

January 18, 2024

**FCC ID.**

2BEK7WHM200A

**Applicant**

**SJIT Co.,Ltd**

54-11, Dongtanhana 1-gil, Hwaseong-si, Gyeonggi-do, Republic of Korea

**Product Name**

WIFI-HaLow Module

**Model Name**

WHM200A

**Date of Test**

January 11, 2024 to January 12, 2024

**Location of Test**

☒ Permanent Testing Lab ☐ On Site Testing Lab  
(Address: Refer to the clause 1.6)

**Test Standard Used**

FCC CFR 47 PART 15 Subpart B Class B  
ANSI C63.4-2014

**Test Results**

Refer to the present document

**Manufacturer**

**SJIT Co.,Ltd**

## REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	January 18, 2024	Initial Release

## Notice

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### Content

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked \*.

Information provided by the applicant is marked \*\*.

Test results provided by external providers are marked \*\*\*.

When confirmation of authenticity of this test report is required, please contact [www.hct.co.kr](http://www.hct.co.kr)

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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## 1. GENERAL INFORMATION

### 1.1 Description of EUT

<b>Model Name</b>	WHM200A
<b>Product Name</b>	WIFI-HaLow Module
<b>Frequency Range</b>	1M Bandwidth: 903.5 MHz – 926.5 MHz 2M Bandwidth: 905 MHz – 925 MHz 4M Bandwidth: 906 MHz - 922 MHz
<b>Clock Frequency</b>	Max 32 MHz
<b>Power Rated</b>	Normal voltage DC 3.3 V
<b>Manufacturer</b>	SJIT Co.,Ltd

### 1.2 Power Source

During the test, the following power supply levels are provided.;

Power supply: AC 120 V, 60 Hz

### 1.3 Tested System Details

All equipment descriptions used in the tested system (including inserted cards) are:

Device Type	Model Name	Serial Number	Manufacturer
Wifi-Halow module	WHM200A	-	SJIT Co,Ltd.
DC power supply <sup>NOTE 1</sup>	DSA-12PFA-05 FKA 050200	-	Dee Van Electronics (Longchuan) Co.,Ltd

NOTE 1. The DC power supply is not included with the product (EUT).

Input: 100 ~ 240 VAC, 50/60 Hz, 0.5 A, Output: +5 V, 2 A

### 1.4 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	DC IN	N	N	(P)1.5
DC power supply	AC IN	N	N	(P)

“(D)” data cable and “(P)” power cable.

### 1.5 Noise Suppression Parts on Cable (I/O Cable)

Product Name	Port	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
EUT	DC IN	Y	EUT END	N	N/A
DC power supply	AC IN	N	N/A	N	N/A

## 1.6 Test Facility

Test site is located at 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea.

Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4-2014.

The Normalized site attenuations (30 MHz to 1 GHz) and Site validation (1 GHz to 18 GHz) were performed in accordance with the standard in ANSI C63.4-2014 and ANSI C63.4a-2017

Our laboratories are accredited and designated in accordance with the provisions of Radio Waves ACT and International Standard ISO/IEC 17025:2017. (National Radio Research Agency, CABID No. KR0032)

## 1.7 Calibration of Measuring Instrument

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturers recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5:2017

## 1.8 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of  $k = 2$  to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the  $U_{CISPR}$  measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Test Site	Expanded Uncertainty
Conducted Emission	EMI Shield Room	2.0 dB
Radiated Emission (30 MHz to 1 GHz)	3 m Semi Anechoic Chamber #1	5.8 dB
Radiated Emission (1 GHz to 18 GHz)	3 m Semi Anechoic Chamber #1	4.8 dB

## 2. DESCRIPTION OF TESTING

### 2.1 Measurement of Conducted Emission

The test procedure was in accordance with ANSI C63.4-2014, Clause 7.3

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN).

If the EUT is connected to the PC through USB, the AC power-line adapter of the PC is directly connected to a line impedance stabilization network (LISN).

Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

b. Both conducted lines are measured in Quasi-Peak and Average mode, including the worst-case data points for each tested configuration.

c. The frequency range from 150 kHz to 30 MHz was searched.

#### Conducted Emission Limits

Frequency (MHz)	Resolution Bandwidth (kHz)	Class A		Class B	
		Quasi-Peak (dBμV)	Average (dBμV)	Quasi-Peak (dBμV)	Average (dBμV)
0.15 to 0.5	9	79	66	66 to 56*	56 to 46*
0.5 to 5	9	73	60	56	46
5 to 30	9	73	60	60	50

NOTE. Decreases with the logarithm of the frequency.



## 2.2 Measurement of Radiated Emission

The test procedure was in accordance with ANSI C63.4-2014, Clause 8.3

- a. The EUT was placed on the top of a turn table 0.8 meters above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from 1 m to 4 m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 m to 4 m and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to Peak and Average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- g. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.  
(1 GHz to 40 GHz)

### Radiated Emission Limits

Frequency (MHz)	Class A			Class B		
	Antenna Distance (m)	Field Strength ( $\mu\text{V/m}$ )	Quasi-Peak (dB $\mu\text{V/m}$ )	Antenna Distance (m)	Field Strength ( $\mu\text{V/m}$ )	Quasi-Peak (dB $\mu\text{V/m}$ )
30 to 88	10	90	39.0	3	100	40.0
88 to 216	10	150	43.5	3	150	43.5
216 to 960	10	210	46.4	3	200	46.0
Above 960	10	300	49.5	3	500	54.0
Frequency (MHz)	Antenna Distance (m)	Class A		Class B		
		Peak (dB $\mu\text{V/m}$ )	Average (dB $\mu\text{V/m}$ )	Peak (dB $\mu\text{V/m}$ )	Average (dB $\mu\text{V/m}$ )	
Above 1 000	3	80	60	74	54	

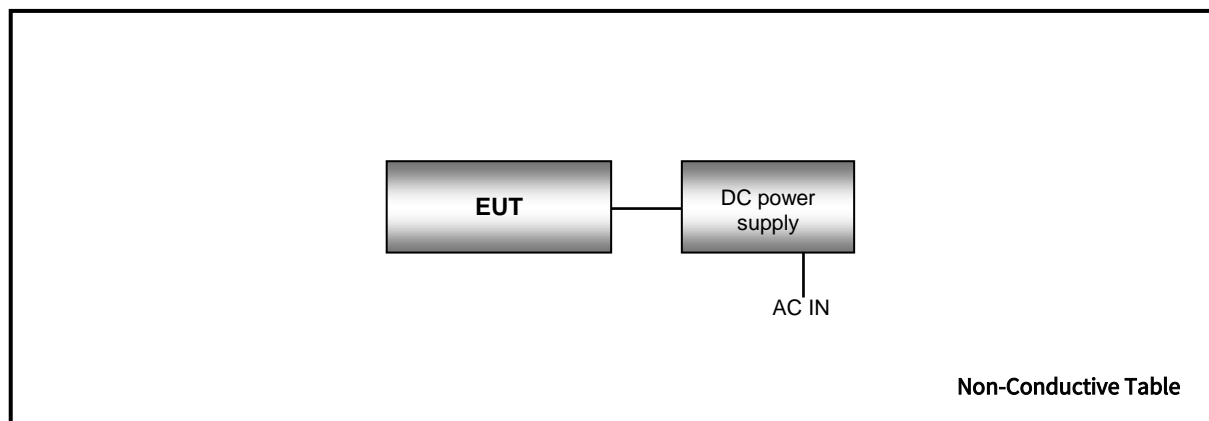
## 2.2.1 Frequency Range of Radiated Measurements

An unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a Radiated Emission limit is specified, up to the frequency shown in the following table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 to 108	1 000
108 to 500	2 000
500 to 1 000	5 000
Above 1 000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

## 2.3 Configuration of Tested System

The EUT was configured in the following manner.  
At the request of the manufacturer, the configuration of the tests was arranged.



### 3. OPERATION OF THE EUT

During preliminary test and final tests, the following operating mode was investigated.  
It was tested the following operating mode, after connecting all peripheral devices.;

**Operating mode:** RX (Low/Middle/High) mode

#### 4. MEASURING INSTRUMENTS

Type	Model Name	Manufacturer	Serial Number	Calibration Cycle	Next Calibration Date
<b>Conducted emission</b>					
<input checked="" type="checkbox"/> EMI Test Receiver	ESR7	Rohde & Schwarz	101910	1 year	05.26.2024
<input checked="" type="checkbox"/> LISN	ENV216	Rohde & Schwarz	102245	1 year	08.02.2024
<input type="checkbox"/> LISN	ENV216	Rohde & Schwarz	100073	1 year	05.11.2024
<input checked="" type="checkbox"/> Software	EMC32	Rohde & Schwarz	-	-	-
<b>Radiated emission below 1 GHz</b>					
<input checked="" type="checkbox"/> EMI Test Receiver	ESU40	Rohde & Schwarz	100524	1 year	05.09.2024
<input checked="" type="checkbox"/> Bilog Antenna	VULB9168	Schwarzbeck	255	2 year	03.15.2025
<input checked="" type="checkbox"/> Antenna master	MA4640-XP-ET	INNCO SYSTEM	-	N/A	-
<input checked="" type="checkbox"/> Antenna master controller	CO3000	INNCO SYSTEM	CO3000/870/35990515/L	N/A	-
<input checked="" type="checkbox"/> Turn Table	1060	INNCO SYSTEM	-	N/A	-
<input checked="" type="checkbox"/> Turn Table controller	CO2000	INNCO SYSTEM	CO2000/095/7590304/L	N/A	-
<input checked="" type="checkbox"/> Software	EMC32	Rohde & Schwarz	-	-	-
<b>Radiated emission above 1 GHz</b>					
<input checked="" type="checkbox"/> EMI test receiver	ESU40	Rohde & Schwarz	100524	1 year	05.09.2024
<input checked="" type="checkbox"/> Horn Antenna	HF907	Rohde & Schwarz	103160	1 year	10.16.2024
<input type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9120D	01836	1 year	07.21.2024
<input checked="" type="checkbox"/> Power Amplifier	TESTEK	TK-PA18H	170034-L	1 year	11.01.2024
<input checked="" type="checkbox"/> Antenna master	INNCO SYSTEM	MA4640-XP-ET	-	N/A	-
<input type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9170	BBHA 9170 #786	1 year	11.01.2024
<input type="checkbox"/> Power Amplifier	TESTEK	TK-PA1840H	170030-L	1 year	02.22.2024
<input checked="" type="checkbox"/> Antenna master controller	INNCO SYSTEM	CO3000	CO3000/870/35990515/L	N/A	-
<input checked="" type="checkbox"/> Turn Table	INNCO SYSTEM	1060	-	N/A	-
<input checked="" type="checkbox"/> Turn Table controller	INNCO SYSTEM	CO2000	CO2000/095/7590304/L	N/A	-
<input checked="" type="checkbox"/> Software	EMC32	Rohde & Schwarz	-	-	-

## 5. EMISSION TEST SUMMARY

### 5.1 Conducted Emission

#### 5.1.1 Operating Condition

The test results of conducted emission at mains ports provide the following information:

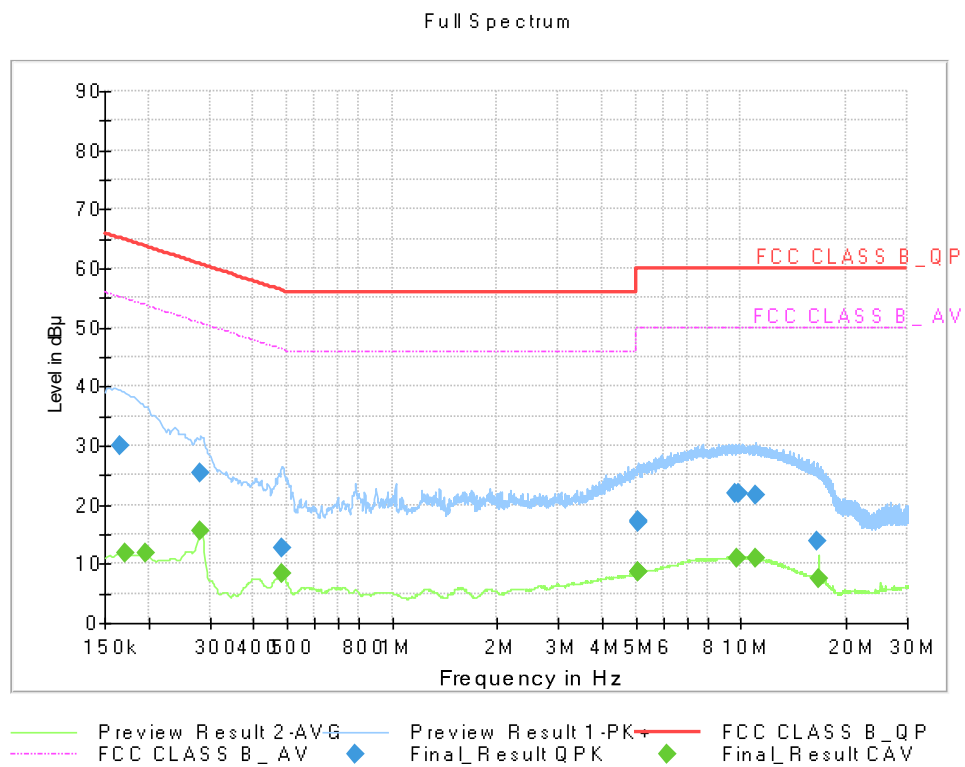
Test Standard Used	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
Frequency Range	150 kHz to 30 MHz
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Operating Mode	RX (Low/Middle/High) mode
Test Site	EMI Shielded Room
Temperature	min. 21.5 °C / max. 23.8 °C
Relative Humidity	min. 34.6 % / max. 38.2 %
Test Date	January 12, 2024

A conducted emission is calculated by the following equation.;

Calculation Formula:    QuasiPeak or CAverage= Receiver Reading + Corr.  
Corr. = LISN Factor + Cable Loss  
Margin = Limit – QuasiPeak or CAverage  
Conductor L1 = Live, Conductor N = Neutral

### 5.1.2 Measuring Data

Figure 1: Conducted Emission (150 kHz to 30 MHz), RX (Low) mode



Two graphs measurement for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

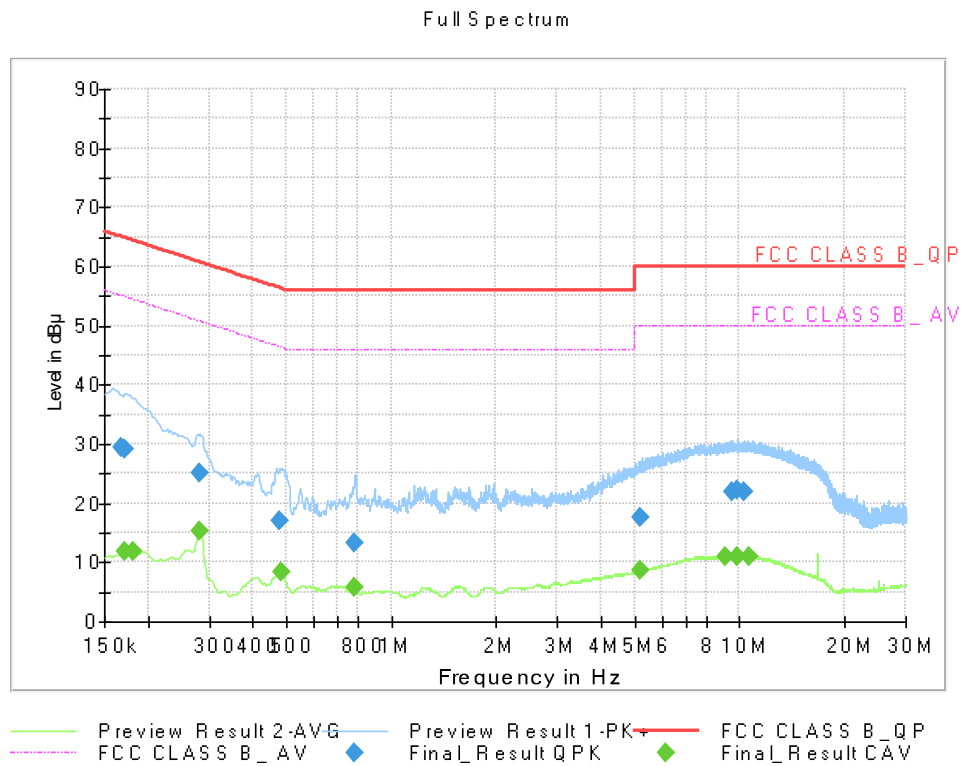
### Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1658	29.93	65.17	35.24	9.000	N	9.6
0.2828	25.29	60.74	35.45	9.000	L1	9.6
0.4808	12.66	56.33	43.67	9.000	N	9.7
5.0540	17.17	60.00	42.83	9.000	L1	9.8
5.0788	16.95	60.00	43.05	9.000	L1	9.8
9.6665	21.79	60.00	38.21	9.000	L1	10.0
9.8038	21.82	60.00	38.18	9.000	L1	10.0
11.0795	21.60	60.00	38.40	9.000	L1	10.1
16.5943	13.72	60.00	46.28	9.000	N	10.4

### Final\_Result\_CAV

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1725	11.75	54.84	43.09	9.000	L1	9.6
0.1973	11.87	53.73	41.86	9.000	L1	9.6
0.2828	15.44	50.74	35.30	9.000	L1	9.6
0.4808	8.39	46.33	37.94	9.000	L1	9.6
5.0540	8.57	50.00	41.43	9.000	L1	9.8
5.0788	8.51	50.00	41.49	9.000	L1	9.8
9.7340	11.10	50.00	38.90	9.000	L1	10.0
11.0795	10.93	50.00	39.07	9.000	L1	10.1
16.7855	7.39	50.00	42.61	9.000	L1	10.3

Figure 2: Conducted Emission (150 kHz to 30 MHz), RX (Middle) mode



Two graphs measurement for both Live(L1) and Neutral(N) of the LISN are combined into one graph.



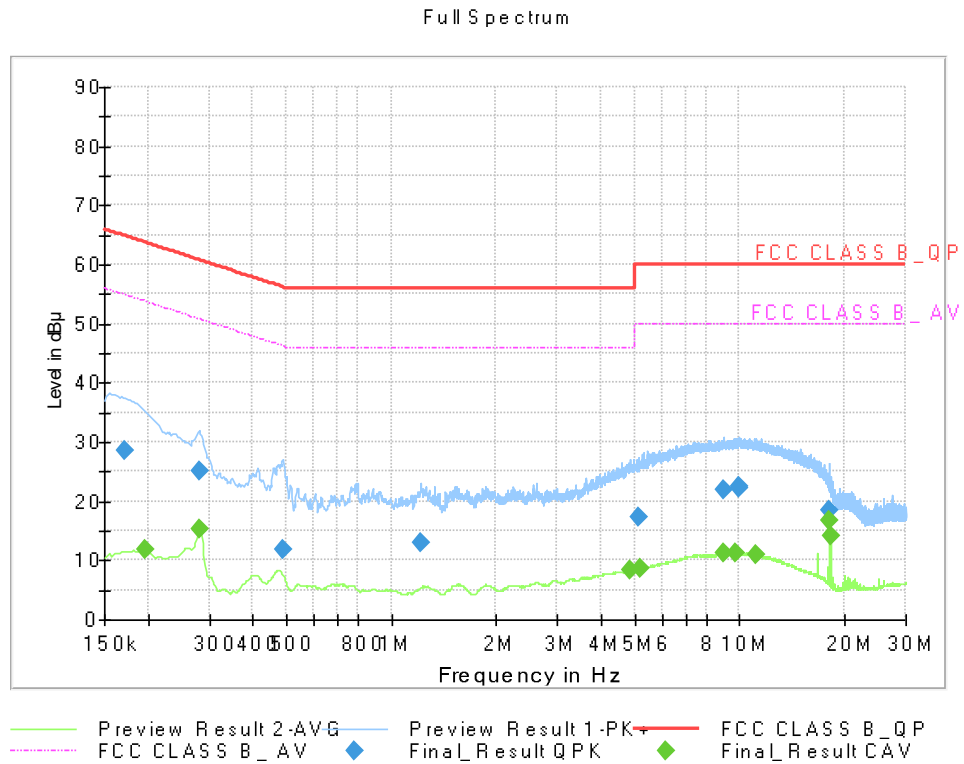
### Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1680	29.36	65.06	35.70	9.000	N	9.6
0.1725	29.05	64.84	35.79	9.000	N	9.6
0.2828	25.23	60.74	35.51	9.000	L1	9.6
0.4785	16.99	56.37	39.38	9.000	L1	9.6
0.7880	13.29	56.00	42.71	9.000	L1	9.6
5.2138	17.54	60.00	42.46	9.000	L1	9.8
9.4753	21.82	60.00	38.18	9.000	L1	10.0
9.8488	22.13	60.00	37.87	9.000	L1	10.0
10.3550	21.90	60.00	38.10	9.000	L1	10.1

### Final\_Result\_CAV

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1725	11.77	54.84	43.07	9.000	L1	9.6
0.1815	11.79	54.42	42.62	9.000	L1	9.6
0.2828	15.37	50.74	35.36	9.000	L1	9.6
0.4830	8.29	46.29	37.99	9.000	L1	9.6
0.7813	5.68	46.00	40.32	9.000	L1	9.6
5.1755	8.70	50.00	41.30	9.000	L1	9.8
9.1040	11.08	50.00	38.92	9.000	L1	10.0
9.8465	11.10	50.00	38.90	9.000	L1	10.0
10.6745	10.99	50.00	39.01	9.000	L1	10.1

Figure 3: Conducted Emission (150 kHz to 30 MHz), RX (High) mode



Two graphs measurement for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

### Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1725	28.69	64.84	36.15	9.000	N	9.6
0.2828	25.11	60.74	35.62	9.000	L1	9.6
0.4898	11.95	56.17	44.22	9.000	N	9.7
1.2133	13.12	56.00	42.88	9.000	L1	9.7
5.1508	17.30	60.00	42.70	9.000	L1	9.8
8.9893	22.01	60.00	37.99	9.000	L1	10.0
9.9500	22.43	60.00	37.57	9.000	L1	10.0
9.9613	22.07	60.00	37.93	9.000	L1	10.0
18.0545	18.44	60.00	41.56	9.000	L1	10.3

### Final\_Result\_CAV

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.1973	11.86	53.73	41.87	9.000	L1	9.6
0.2805	15.16	50.80	35.64	9.000	L1	9.6
4.8560	8.32	46.00	37.68	9.000	L1	9.8
5.1800	8.77	50.00	41.23	9.000	L1	9.8
8.9915	11.14	50.00	38.86	9.000	L1	10.0
9.7768	11.33	50.00	38.67	9.000	L1	10.0
11.2010	11.05	50.00	38.95	9.000	L1	10.1
18.0545	16.60	50.00	33.40	9.000	L1	10.3
18.2998	14.01	50.00	35.99	9.000	L1	10.3

## 5.2 Radiated Emission Below 1 GHz

### 5.2.1 Operating Condition

The test results of radiated emission provide the following information:

<b>Used Test Standard</b>	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
<b>Frequency Range</b>	30 MHz to 1 000 MHz
<b>Detector</b>	Quasi-Peak
<b>Bandwidth</b>	120 kHz (6 dB)
<b>Measurement Distance</b>	3 m
<b>Antenna Height</b>	1 m to 4 m
<b>Antenna Polarity</b>	Horizontal, Vertical
<b>Operating Mode</b>	RX (Low/Middle/High) mode
<b>Test Site</b>	3 m Semi Anechoic Chamber #1
<b>Temperature</b>	min. 21.0 °C, max. 22.8 °C
<b>Relative Humidity</b>	min. 33.4 %, max. 37.0 %
<b>Test Date</b>	January 11, 2024

A field strength is calculated by the following equation.;

Calculation Formula:     $\text{QuasiPeak} = \text{Reading (Receiver Reading)} + \text{Corr.}$   
                                   $\text{Corr. (Correction Factor)} = \text{Antenna Factor} + \text{Cable Loss}$   
                                   $\text{Margin} = \text{Limit} - \text{QuasiPeak}$

### 5.2.2 Measuring Data

Figure 4: Radiated Emission (30 to 1 000) MHz, RX (Low) mode

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization (H/V)	Azimuth (deg)	Corr. (dB)
89.4048	20.10	43.50	13.40	125.2	V	122.0	14.6
104.9529	17.10	43.50	26.40	285.7	V	355.0	15.7
137.9886	33.20	43.50	10.30	100.0	V	276.0	19.1
241.1090	37.10	46.00	8.90	100.0	V	326.0	18.7
294.3218	33.80	46.00	12.20	180.7	V	240.0	20.2
934.4893	32.30	46.00	17.70	374.8	H	324.0	32.0

Figure 5: Radiated Emission (30 to 1 000) MHz, RX (Middle) mode

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization (H/V)	Azimuth (deg)	Corr. (dB)
89.5168	19.81	43.50	23.69	125.3	V	96.0	14.6
138.1055	29.39	43.50	14.11	100.0	V	0.0	19.2
242.9543	37.61	46.00	8.39	100.0	V	181.0	18.7
290.0300	34.98	46.00	11.02	174.9	V	237.0	20.1
402.4861	31.57	46.00	14.43	125.1	H	341.0	23.1
930.4793	31.77	46.00	14.23	110.7	V	255.0	31.9

Figure 6: Radiated Emission (30 to 1 000) MHz, RX (High) mode

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization (H/V)	Azimuth (deg)	Corr. (dB)
89.5771	26.70	43.50	16.80	100.0	V	122.0	14.6
138.1902	34.83	43.50	8.67	100.0	V	0.0	19.2
242.9942	38.16	46.00	7.84	100.0	V	200.0	18.7
291.4230	32.10	46.00	13.90	174.9	V	229.0	20.2
801.6381	30.46	46.00	15.54	225.1	H	113.0	30.5
927.8804	31.73	46.00	14.27	125.0	H	106.0	31.9

### 5.3 Radiated Emission Above 1 GHz

#### 5.3.1 Operating Condition

The test results of radiated emission provide the following information:

Used Test Standard	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
Detector	Peak, CISPR-Average
Bandwidth	1 MHz
Highest Frequency	926.5 MHz
Tested Frequency Range	1 GHz to 18 GHz
Measurement Distance	3 m
Antenna Height	1 m to 4 m
Antenna Polarity	Horizontal, Vertical
Operating Mode	RX (Low/Middle/High) mode
Test Site	3 m Semi Anechoic Chamber #1
Temperature	min. 21.0 °C, max. 22.8 °C
Relative Humidity	min. 33.4 %, max. 37.0 %
Test Date	January 11, 2024

A field strength is calculated by the following equation.;

Calculation Formula:    Peak or CAverage = Reading (Receiver Reading) + Corr.  
Corr. (Correction Factor) = Antenna Factor+ Cable Loss  
Margin = Limit - Peak or CAverage

### 5.3.2 Measuring Data

Figure 7: Radiated Emission (1 to 18) GHz, RX (Low) mode

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol (H/V)	Azimuth (deg)	Corr. (dB)
2289.8550	---	21.43	54.00	32.57	274.6	H	333.0	-24.8
2289.8550	33.57	---	74.00	40.43	274.6	H	333.0	-24.8
5026.7500	---	27.09	54.00	26.91	107.8	H	62.0	-14.9
5026.7500	39.65	---	74.00	34.35	107.8	H	62.0	-14.9
7303.2000	41.53	---	74.00	32.47	325.1	H	292.0	-11.0
7303.2000	---	29.02	54.00	24.98	325.1	H	292.0	-11.0
9211.7300	---	29.60	54.00	24.40	185.7	H	13.0	-9.5
9211.7300	42.54	---	74.00	31.46	185.7	H	13.0	-9.5
13353.1850	---	30.87	54.00	23.13	338.6	V	25.0	-3.6
13353.1850	43.30	---	74.00	30.70	338.6	V	25.0	-3.6
17611.7150	49.47	---	74.00	24.53	315.7	H	154.0	5.1
17611.7150	---	37.31	54.00	16.69	315.7	H	154.0	5.1

Figure 8: Radiated Emission (1 to 18) GHz, RX (Middle) mode

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol (H/V)	Azimuth (deg)	Corr. (dB)
2249.8250	---	21.25	54.00	32.75	181.7	H	120.0	-25.0
2249.8250	33.45	---	74.00	40.55	181.7	H	120.0	-25.0
4975.9450	39.56	---	74.00	34.44	322.6	V	161.0	-15.0
4975.9450	---	27.20	54.00	26.80	322.6	V	161.0	-15.0
7317.0100	41.09	---	74.00	32.91	375.1	V	343.0	-11.0
7317.0100	---	28.96	54.00	25.04	375.1	V	343.0	-11.0
9782.4450	---	30.00	54.00	24.00	375.2	V	242.0	-8.8
9782.4450	43.24	---	74.00	30.76	375.2	V	242.0	-8.8
13485.2300	---	32.88	54.00	21.12	305.6	V	235.0	-3.3
13485.2300	45.13	---	74.00	28.87	305.6	V	235.0	-3.3
17274.1650	---	36.42	54.00	17.58	337.7	V	65.0	3.7
17274.1650	48.87	---	74.00	25.13	337.7	V	65.0	3.7



Figure 9: Radiated Emission (1 to 18) GHz, RX (High) mode

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol (H/V)	Azimuth (deg)	Corr. (dB)
2845.1300	35.40	---	74.00	38.60	184.5	V	89.0	-22.3
2845.1300	---	22.77	54.00	31.23	184.5	V	89.0	-22.3
4949.7550	---	27.32	54.00	26.68	324.6	H	38.0	-15.1
4949.7550	39.80	---	74.00	34.20	324.6	H	38.0	-15.1
7351.8850	---	28.79	54.00	25.21	206.6	H	122.0	-10.9
7351.8850	41.34	---	74.00	32.66	206.6	H	122.0	-10.9
8997.7550	41.76	---	74.00	32.24	125.2	H	34.0	-9.7
8997.7550	---	29.60	54.00	24.40	125.2	H	34.0	-9.7
13250.7400	44.23	---	74.00	29.77	100.0	H	124.0	-3.9
13250.7400	---	31.40	54.00	22.60	100.0	H	124.0	-3.9
17603.8000	49.94	---	74.00	24.06	174.6	V	25.0	5.0
17603.8000	---	37.58	54.00	16.42	174.6	V	25.0	5.0

## 6. APPENDIX A. TEST SETUP PHOTO

Please refer to Appendix. A and test setup photo file no. as follows;

File No.	Date of Issue	Description
HCT-EM-2401-FC004-P	January 18, 2024	Initial Release

End of report