

Prüfbericht-Nr.: <i>Test report no.:</i>	CN22BG0Z 001	Auftrags-Nr.: <i>Order no.:</i>	168361087	Seite 1 von 21 <i>Page 1 of 21</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2022-02-22	
Auftraggeber: <i>Client:</i>	Zhejiang Dahua Vision Technology Co., Ltd No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R.China.			
Prüfgegenstand: <i>Test item:</i>	Smart interactive whiteboard			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	DHI-LCH65-MC410-B, DHI-LPH65-MT410-B, DHI-LCH65-MT410-B, DHI-LPH65-MC410-B, DHI-LU65-H****, DHI-LU65-M****, DHI-L*H65-M*4**-*, DHI-L*H65-****, DHI-L*H65-M****(*=Blank, 0-9, A-Z, a-z for marketing purpose, no technical difference) Trademark: 			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2022-02-22	Please refer to Photo Document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	HS220218-001-002 HS220218-001-003			
Prüfzeitraum: <i>Testing period:</i>	2022-02-23 - 2022-03-13			
Ort der Prüfung: <i>Place of testing:</i>	Hwa-Hsing (Dongguan) Testing Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>			genehmigt von: <i>authorized by:</i>	
Datum: <i>Date:</i>	2022-04-27	Ausstellungsdatum: <i>Issue date:</i>		2022-04-27
Stellung / Position:	Section Manager	Stellung / Position:		Reviewer
Sonstiges / Other:	FCC ID: SVN-LCH65			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut 2 = good P(ass) = passed a.m. test specification(s)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n) 3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = ausreichend N/A = nicht anwendbar 4 = sufficient N/A = not applicable
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good 2 = good P(ass) = passed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	5 = mangelhaft N/T = nicht getestet 5 = poor N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.8 CONDUCTED EMISSION

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

Appendix B: Test Results of Wi-Fi 802.11 b/g/n20/n40

2 Test Sites

2.1 Test Facilities

Hwa-Hsing (Dongguan) Testing Co., Ltd.

No.101, Bld N, Yuyuan 2Rd, Yuyuan Industrial Park, HuangJiang Town, Dongguan, China

FCC Registration No.: 915896

IC Registration No.: 25433

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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Unwanted Emission Testing (Radiated emission below 30MHz)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	Rohde&Schwarz	ESR7	100962	2023/01/12
Test software	FARAD	FARAD	EZ_EMCV1.1.4.2	N/A
Loop Antenna	EMCI	HLA 6121	45745	2022/04/13
Preamplifier	EMCI	EMC001340	980201	2022/09/12
Unwanted Emission Testing (Radiated emission below 1GHz)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	Rohde&Schwarz	ESR7	100962	2023/01/12
Broadband antenna	Schwarzbeck	VULB 9168	00937	2022/04/19
Signal Amplifier	Com-power	PAM-103	18020051	2022/09/11
Attenuator	Rohde&Schwarz	TS2GA-6dB	18101101	N/A
Test software	FARAD	FARAD	EZ_EMCV1.1.4.2	N/A
Unwanted Emission Testing (Frequency Range 1-18GHz)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
3m Semi-anechoic Chamber	MAORUI	9m*6m*6m	NSEMC003	2022/04/15
Horn Antenna	Schwarzbeck	BBHA 9170	01959	2022/04/15
Broadband Coaxial Preamplifier	Schwarzbeck	BBV 9718	00025	2022/03/14
Spectrum	Keysight	N9020A	MY51240612	2022/09/12
Antenna Tower	MF	MFA-440H	NA	NA
Turn Table	MF	MFT-201SS	NA	NA
Unwanted Emission Testing (Frequency Range 18-40GHz)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
Spectrum Analyzer	Rohde&Schwarz	FSV-40N	101783	2023/01/13
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170242	2022/04/18
Pre-Amplifier	EMCI	EMC 184045	980102	2023/01/03
Radio spectrum Testing				
Equipment	Manufacturer	Model	Serial No.	Cal. until
Spectrum	Keysight	N9020A	MY51240612	2022/09/12
Spectrum Analyzer	Rohde&Schwarz	FSV-40N	101783	2023/01/13
Power Meter	Tonscend	JS0806-2	188060126	2022/09/12
Signal generator	Keysight	E4421B	GB40051020	2022/09/12
Signal generator	Keysight	N5182A	MY47420944	2022/09/12
Test Software	Tonscend	JS0806-2	NA	NA
Conducted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102428	2022-08-10
Artificial Mains Network	R&S	ENV216	102333	2022-08-10
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-7}$
RF Power (conducted)	± 2.5 dB
Radiated Emission of Transmitter, valid up to 26.5 GHz	± 6 dB
Radiated Emission of Receiver, valid up to 26.5 GHz	± 6 dB
Temperature	± 1 °C
Humidity	± 5 %
Voltage (DC)	± 1 %
Voltage (AC, <10kHz)	± 2 %
Conducted Emission	± 2.66 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The **Hwa-Hsing (Dongguan) Testing Co., Ltd.** Test facility located at No.101, Bld N, Yuyuan 2Rd, Yuyuan Industrial Park, HuangJiang Town, Dongguan, China. is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a **Smart interactive whiteboard** which supports 2.4GHz Wi-Fi 802.11 b/g/n and 5GHz Wi-Fi 802.11a/n/ac wireless technology.

All model are same as test model DHI-LCH65-MC410-B except model number difference for marketing purpose.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Smart interactive whiteboard
Type Designation:	DHI-LCH65-MC410-B, DHI-LPH65-MT410-B, DHI-LCH65-MT410-B, DHI-LPH65-MC410-B, DHI-LU65-H****, DHI-LU65-M****, DHI-L*H65-M*4**.*, DHI-L*H65-*****, DHI-L*H65-M****(*=Blank, 0-9, A-Z, a-z for marketing purpose, no technical difference)
Trademark:	
FCC ID:	SVN-LCH65
Operating Voltage:	100V-240V~, 50/60Hz, 2A
Testing Voltage:	AC 120V/60Hz
Technical Specification of Wi-Fi 802.11 b/g/n: Wi-Fi Module 1 (model: nxp8997)	
Operating Frequency:	2412 - 2462 MHz for 802.11b/g/n(HT20) 2422 - 2452 MHz for 802.11n(HT40)
Type of Modulation:	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 Mbps for 802.11n(HT20) MCS0 ~ MCS7 Mbps for 802.11n(HT40)
Channel Number:	11 channels for 802.11b/g/n(HT20) 7 channels for 802.11n(HT40)
Channel Separation:	5 MHz
SISO/MIMO mode:	802.11b/g/n(HT20)/ (HT40): SISO mode 1TX/1RX
Maximum conducted power	20.15dBm (Peak)
Antenna Type:	PCB Antenna
Antenna number:	2
Antenna Gain:	ANT1: 5.14dBi ANT2: 3.16dBi
Technical Specification of Wi-Fi 802.11 b/g/n: Wi-Fi Module 2: (model: 8812 CU)	
Operating Frequency:	2412 - 2462 MHz for 802.11b/g/n(HT20) 2422 - 2452 MHz for 802.11n(HT40)

Type of Modulation:	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 Mbps for 802.11n(HT20) MCS0 ~ MCS7 Mbps for 802.11n(HT40)
Channel Number:	11 channels for 802.11b/g/n(HT20) 7 channels for 802.11n(HT40)
Channel Separation:	5 MHz
SISO/MIMO mode:	802.11b/g: SISO mode 1TX1RX 802.11n(HT20)/ (HT40): MIMO mode 2TX2RX
Maximum conducted power	24.06dBm (Peak)
Antenna Type:	PCB Antenna
Antenna number:	2
Antenna Gain:	2.59dBi

*Note: The above two modules cannot work simultaneously.

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wi-Fi 802.11 b/g/n wireless transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, Wi-Fi 802.11 b/g/n connecting mode
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- User Manual
- Block Diagram
- Operation Description

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model DHI-LCH65-MC410-B in this report.

Table 3: Test environments

Environment Parameter	Selected Values During Tests		
	Temperature	Voltage (adapter)	Relative Humidity
NTNV	23.2°C	120V/60Hz	Ambient

Table 4: Test channel and frequency

Mode	Test Channels
802.11b/g/n(HT20)	L: CH01, 2412MHz; M: CH06, 2437MHz; H: CH11, 2462MHz
802.11n(HT40)	L: CH03, 2422MHz; M: CH06, 2437MHz; H: CH09, 2452MHz

4.3 Special Accessories and Auxiliary Equipment

Table 5: Auxiliary Equipment Used during Test

Description	Manufacturer	Model	S/N	Rating
Notebook	HUAWEI	Mate Book D 14	00342-35692-30405	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

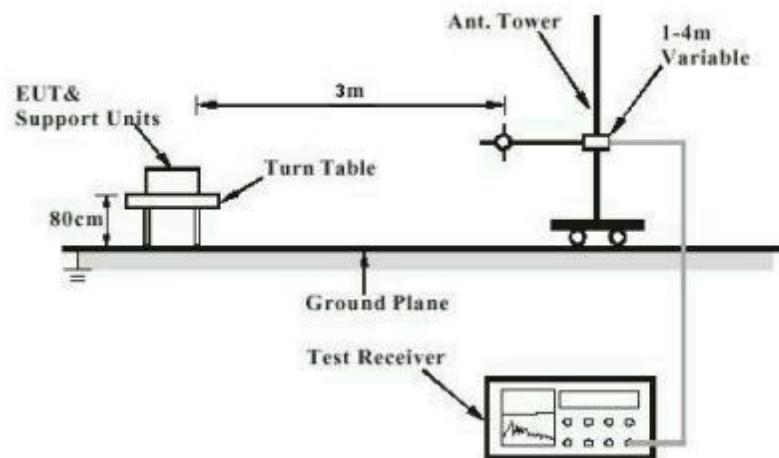


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

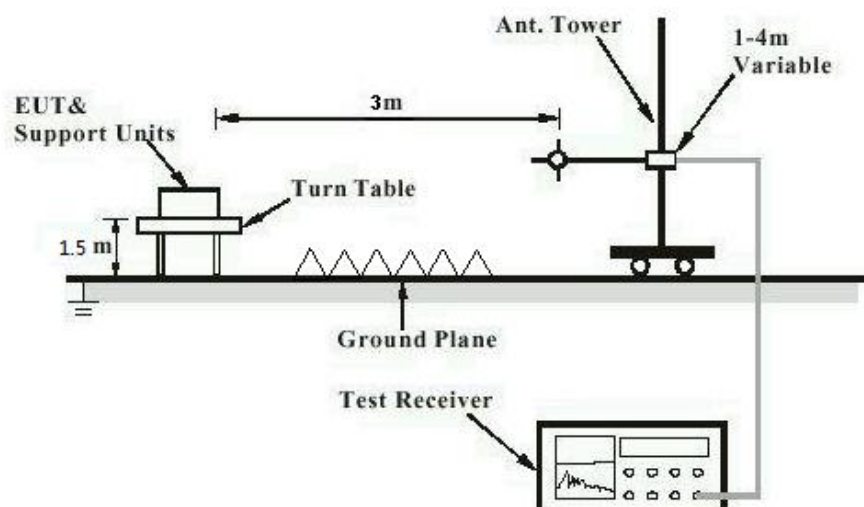


Diagram of Measurement Configuration for Mains Conduction Measurement

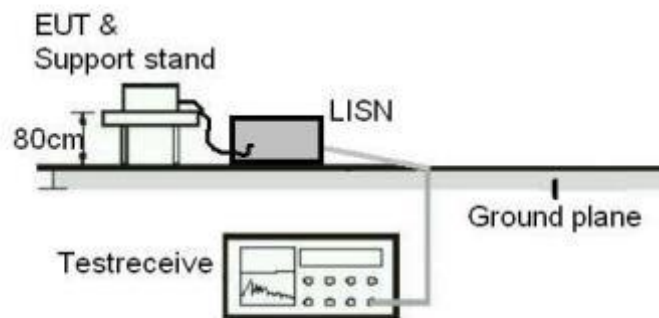
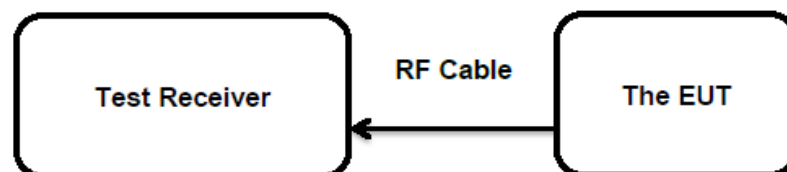


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203

According to the manufacturer declared, the EUT has a PCB antenna, the directional gain of antenna see the table 2, and the antenna connector is designed with permanent attachment and no consideration of replacement.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Maximum Peak Conducted Output Power

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.247(b)(3)

Basic standard : ANSI C63.10: 2013

Limits : 1.0 Watts

Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-03-07

Input voltage : AC120V/60Hz

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : 23.2 °C

Relative humidity : 45.5 %

Atmospheric pressure : 101 kPa

Table 6: Test Result of Maximum Peak Conducted Output Power, Wi-Fi 802.11 b/g/n
Wi-Fi Module 1 (model: nxp8997)

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power				Limit (W)
			ANT1		ANT2		
			(dBm)	(W)	(dBm)	(W)	
802.11b	1 Mbps	2412	19.53	0.0897	19.04	0.0802	< 1.0
		2437	18.96	0.0787	19.30	0.0851	
		2462	19.77	0.0948	20.15	0.1035	
802.11g	6 Mbps	2412	19.54	0.0899	19.06	0.0805	
		2437	19.79	0.0953	20.11	0.1026	
		2462	16.85	0.0484	17.11	0.0514	
802.11n (HT20)	MCS0	2412	14.79	0.0301	14.23	0.0265	
		2437	19.00	0.0794	19.30	0.0851	
		2462	14.22	0.0264	14.43	0.0277	
802.11n (HT40)	MCS0	2422	10.63	0.0116	10.32	0.0108	
		2437	19.12	0.0817	19.50	0.0891	
		2452	10.91	0.0123	11.00	0.0126	
Maximum Measured Value			19.79	0.0953	20.15	0.1035	

Note:

1) The cable loss is taken into the account in results.

Antenna gain(G) of 2.4G Wi-Fi: ANT1: 5.14dBi, ANT2: 3.16dBi

$$e.i.r.p. = P_{(Peak\ power)} + G, \text{ which is far below the } 4\text{ W}$$

Wi-Fi Module 2: (model: 8812 CU)

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power				Limit (W)
			ANT1		ANT2		
			(dBm)	(W)	(dBm)	(W)	
802.11b	1 Mbps	2412	24.06	0.2547	22.28	0.1690	< 1.0
		2437	23.56	0.2270	21.93	0.1560	
		2462	23.67	0.2328	21.95	0.1567	
802.11g	6 Mbps	2412	20.87	0.1222	19.07	0.0807	
		2437	20.00	0.1000	18.62	0.0728	
		2462	20.26	0.1062	18.47	0.0703	
Maximum Measured Value			24.06	0.2547	22.28	0.1690	

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power				Limit (W)
			MIMO mode		Total Power		
			ANT1	ANT2	(dBm)	(W)	
802.11n (HT20)	MCS0	2412	15.19	13.87	17.59	57.4151	< 1.0
		2437	14.39	13.09	16.80	47.8494	
		2462	14.81	13.41	17.18	52.1972	
802.11n (HT40)	MCS0	2422	12.90	12.23	15.59	36.2094	
		2437	12.35	11.70	15.05	31.9702	
		2452	12.53	11.97	15.27	33.6459	
Maximum Measured Value			15.19	13.87	17.59	57.4151	

Note:

- 1) The cable loss is taken into the account in results.
- 2) Antenna gain(G) of 2.4G Wi-Fi: 2.59dBi
e.i.r.p.= $P_{(Peak\ power)} + G$, which is far below the 4 W

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5.1.3 Conducted Power Spectral Density

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(e)

Basic standard : ANSI C63.10: 2013

Limits : < 8 dBm / 3kHz

Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-03-07

Input voltage : AC120V/60Hz

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : 23.2 °C

Relative humidity : 45.5 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

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5.1.4 6dB Bandwidth

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(a)(2)

Basic standard : ANSI C63.10: 2013

Limits : > 500 KHz

Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-03-07

Input voltage : AC120V/60Hz

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : 23.2 °C

Relative humidity : 45.5 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

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5.1.5 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard	:	FCC Part 15.247(a)
Basic standard	:	
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2022-03-07
Input voltage	:	AC120V/60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	23.2 °C
Relative humidity	:	45.5 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

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5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth**RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.247(d)

Basic standard : ANSI C63.10: 2013

Limits : 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);
In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)

Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-03-07

Input voltage : AC120V/60Hz

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : 23.2 °C

Relative humidity : 45.5 %

Atmospheric pressure : 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix B.

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5.1.7 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(d) & FCC Part 15.205

Basic standard : ANSI C63.10: 2013

Limits : Refer to 15.209(a) of FCC part 15.247(d)

Kind of test site : 3m Semi-anechoic Chamber

Test Setup

Date of testing : 2022-02-26 ~ 2022-03-11

Input voltage : AC120V/60Hz

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : 23.7 °C

Relative humidity : 46.3 %

Atmospheric pressure : 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix B.

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5.1.8 Conducted Emission

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.207(a)

Basic standard : ANSI C63.10: 2013

Frequency range : 0.15 – 30MHz

Limits : FCC Part 15.207(a)

Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-02-26 ~ 2022-03-11

Input voltage : AC120V/60Hz

Operation mode : B

Earthing : Low / Middle / High

Ambient temperature : 23.7 °C

Relative humidity : 46.3 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

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