

FCC - TEST REPORT

Report Number : **60.792.18.013.01E01** Date of Issue : August 27, 2018

Model : **HG04641A-US-RX, HG04641A-US-RX**

Product Type : **TEMPERATURE STATION LCD**

Applicant : Lidl US Trading, LLC

Address : 3500 S. Clark Street, Arlington, Virginia, United States

Production Facility : PUTIAN DIOR INDUSTRIAL CO., LTD.

Address : Linan Industrial Area, Xianyou County, Putian, Fujian, China

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including Appendices : 12

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2 Description of Equipment Under Test

Description of the Equipment Under Test

Product: TEMPERATURE STATION LCD

Model no.: HG04641A-US-RX, HG04641A-US-RX

FCC ID: 2AJ9O-HG4641RX

Rating: 3.0VDC (3 x 1.5VDC size "AA" batteries)

Frequency: 433.92MHz

Antenna gain: 0 dBi

Number of operated channel: 1

Modulation: FSK

3 Summary of Test Standards

Test Standards
FCC Part 15 Subpart B 10-1-17 Edition Federal Communications Commission, PART 15 — Radio Frequency Devices, Subpart B — Unintentional Radiators

4 Details about the Test Laboratory

Site 1

Company name: TÜV SÜD Hong Kong Ltd.
3/F, West Wing, Lakeside 2,
10 Science Park West Avenue,
Science Park, Shatin, Hong Kong

Site 2

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13 Zhiheng Wisdomland Business Park,
Nantou Checkpoint Road 2,
Shenzhen 518052, P.R.China
FCC Registration Number: 502708

Emission Tests	
Test Item	Test Site
FCC Part 15 Subpart B	
FCC Title 47 Part 15.109 Radiated Emission 30MHz-1000MHz	Site 2
FCC Title 47 Part 15.107 Conduct Emission 150kHz-30MHz	N/A

4.1 Test Equipment Site List

Radiated emission Test – Site 2

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	2019-7-6
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2019-6-28
Horn Antenna	Rohde & Schwarz	HF907	102294	2019-6-28
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	2019-7-6
Signal Generator	Rohde & Schwarz	SMY01	839369/005	2019-7-6
Attenuator	Agilent	8491A	MY39264334	2019-7-6
3m Semi-anechoic chamber	TDK	9X6X6	----	2020-7-7
Test software	Rohde & Schwarz	EMC32	Version 9.15.00	N/A

4.2 Measurement System Uncertainty

Measurement System Uncertainty Emissions

System Measurement Uncertainty	
Items	Extended Uncertainty
Uncertainty for Radiated Emission in 3m chamber 30MHz-1000MHz	Horizontal: 4.83dB; Vertical: 4.91dB;
Uncertainty for Radiated Emission in 3m chamber 1000MHz-25000MHz	Horizontal: 4.89dB; Vertical: 4.88dB;

5 Summary of Test Results

Emission Tests				
FCC Part 15 Subpart B				
Test Condition	Pages	Test Result		
		Pass	Fail	N/A
FCC Title 47 Part 15.109 Radiated Emission 30MHz-1000MHz	10-11	☒	☐	☐
FCC Title 47 Part 15.107 Conduct Emission 150kHz-30MHz	NA	☐	☐	☒

6 General Remarks

Remarks

Client informs that the HG04641B-US-TX have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, with TEMPERATURE STATION LCD, HG04641A-US-TX. The difference lies only on different color of the different models. (Client's conformation letter shown at appendix C)

EMC Tests were performed on model: HG04641A-US-TX

SUMMARY:

- All tests according to the regulations cited on page 5 were

■ - Performed

□ - **Not** Performed

- The Equipment Under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

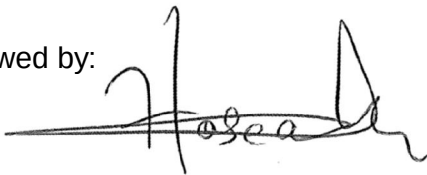
Sample Received Date: August 1, 2018

Testing Start Date: August 7, 2018

Testing End Date: August 15, 2018

- TÜV SÜD HONG KONG LTD. -

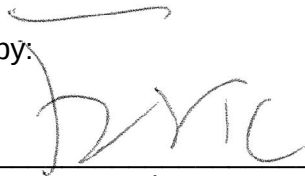
Reviewed by:



Hosea CHAN
EMC Project Engineer



Prepared by:



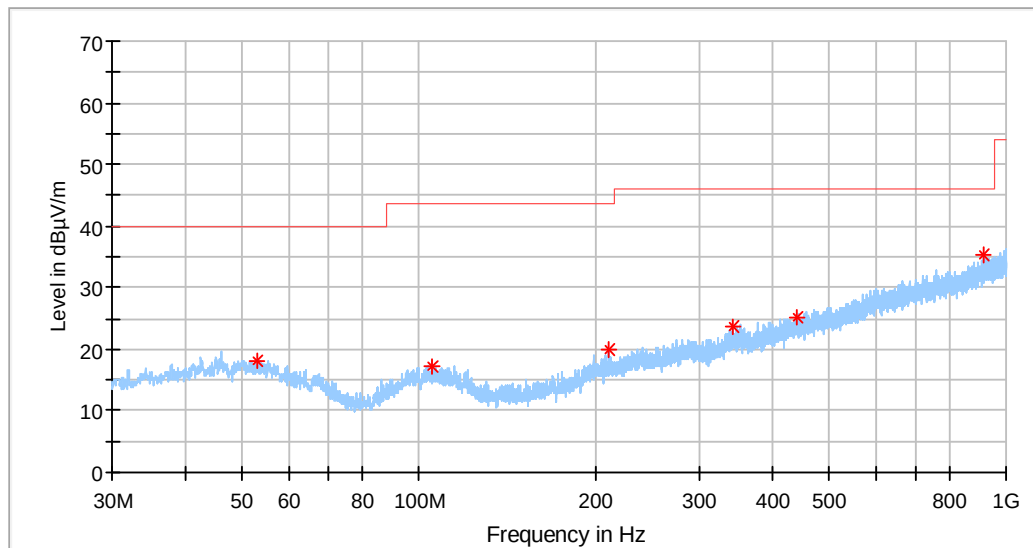
Eric LI
EMC Senior Project Engineer

7 Emission Test Results

7.1 Radiated Emission

EUT: HG04641A-US-RX
 Op Condition: Receive Mode
 Test Specification: Antenna: Horizontal
 Comment: 3 VDC

Test Result	
☒	Passed
☐	Not Passed

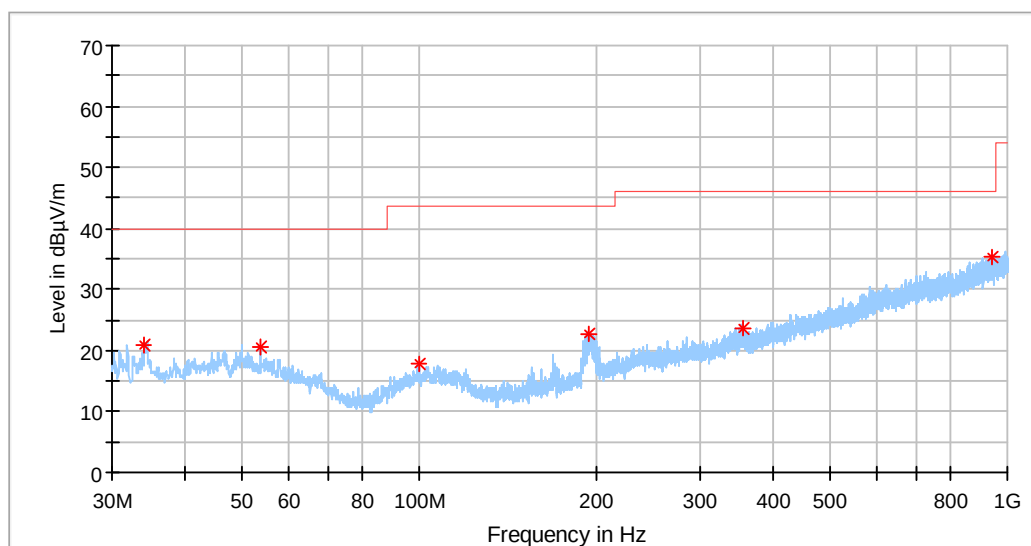


Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)
52.916250	18.12	40.00	21.88
104.932500	17.30	43.50	26.20
209.995625	20.03	43.50	23.47
344.037500	23.50	46.00	22.50
440.310000	25.18	46.00	20.82
917.792500	35.34	46.00	10.66

Radiated Emission

EUT: HG04641A-US-RX
 Op Condition: Receive Mode
 Test Specification: Antenna: Vertical
 Comment: 3 VDC

Test Result
☒ Passed
☐ Not Passed



Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)
34.122500	20.91	40.00	19.09
53.704375	20.58	40.00	19.42
99.779375	17.76	43.50	25.74
193.930000	22.80	43.50	20.70
355.677500	23.63	46.00	22.37
940.708750	35.18	46.00	10.82

10 Appendix C - General Product Information

To: TÜV SÜD HKG Ltd.

Attention: Edmond Fung
From: Mr. Maxwell Hand
Fax No:

Date: September 6, 2018
Total Page (Cover Included): 1

Declaration Letter

Subject:

We:

Officially notify TÜV SÜD HKG Ltd. that the <<Additional Model>> have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, with <<PRODUCT>>, <<Main Test Model>>. The difference lies only on the different on the non-metallic outlook case color of the different models.

<<Additional Model >>: HG04641B-US-TX , HG04641B-US-RX

<<Main Test Model >>: HG04641A-US-TX , HG04641A-US-RX

<<Product>>: TEMPERATURE STATION LCD

Applicant: Lidl US, LCC

9/6/18
(Date)



(Applicant's authorized signature and company Chop)
Mr. Maxwell Hand
Senior Quality Assurance Manager