





TEST REPORT N°: JNG-16MY0029VNTY EMC TEST REPORT

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This document includes : 12 pages		Test date :	May.11 to May.18, 2016

FACTORY NAME :		
ADDRESS :		
PRODUCT :	MANICURE AND PEDICURE SET	
TYPE REFERENCE :	WL-H	
RATED VOLTAGE :	Powered by battery	
RATED INPUT POWER:	--	
PROTECTION CLASS :	III	
TESTS REALISED :	On 1 sample	
STANDARDS USED(DATE) :	EN 55014-1:2006+A1:2009+A2:2011 EN 55014-2:1997+A1:2001+A2:2008	
CLAUSES EXAMINED :	All Clauses Relevant.	
CONCLUSION :		The sample does satisfy the clauses examined .
Test done by, <div style="text-align: center;">Wen ZHU</div> Name: Wen ZHU Title: Project Engineer Date : May.18, 2016	Reviewed by, <div style="text-align: center;">Joy ZHU</div> Name: Joy ZHU Title: Testing Manager Date : May.18, 2016	Approved by: <div style="text-align: center;">  </div> Name: Zhaoqian YU Title: Lab Manager Date : May.18, 2016

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.



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1 TESTING PROGRAM

The tests have been carried out according to the requirements of the following standards :

Emission standard EN 55014-1:2006+A1:2009+A2:2011

- Measurement of the disturbance voltage levels.
- Measurement of the discontinuous disturbance levels.
- Measurement of the disturbance power levels.
- Measurement of the radiated disturbance levels.

Immunity standard EN 55014-2:1997+A1:2001+A2:2008

- Immunity to electrostatic discharges - publication IEC 61000-4-2.
- Immunity to fast transients/bursts - publication IEC 61000-4-4.
- Immunity to conducted disturbances induced by radio-frequency fields - publication IEC 61000-4-6.
- Immunity to radiated radio-frequency electromagnetic field with amplitude modulation - publication IEC 61000-4-3.
- Immunity to surges - publication IEC 61000-4-5.
- Immunity to voltage dips -publication IEC 61000-4-11.
- Immunity to voltage interruptions - publication IEC 61000-4-11.

Special none
Comment :

2 HISTORY OF FAILURE

None.

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3 OPERATING CONDITIONS

The apparatus was placed in a shielded room, full anechoic chamber, and was powered with battery. The apparatus was worked continuously.

Ambient conditions :	Temperature	:	20-26 °C
	Relative humidity	:	40-55 %
	Atmospheric pressure	:	101kPa

4 PERFORMANCE CRITERIA

- Criterion A : The apparatus operate as intended during the test. No degradation of performance or loss of function is allowed below the performance level.
- Criterion B : The apparatus operate as intended after the test. No change of operating state and the stored data are allowed. During the test, degradation of performance is allowed.
- Criterion C : Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.



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5 TEST INSTRUMENTS LIST

5.1 Test Equipment for Electrostatic Discharge (ESD) Immunity Test

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
Electrostatic discharge simulator and GUN	ESS-2002EX TC-815R	E1ES016	2016.10.10

5.2 Test Equipment for Radiated Emission Test

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Spectrum Analyzer Agilent	E4403B	E1S1001	2016.8.25
Receiver R&S	ESCS30	E1R1001	2017.4.9
Broadband Antenna Schwarzbeck	VULB 9168	E1A1001	2017.4.9
Preamplifier Agilent	8447D	E1A2001	2016.9.8



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6 TEST RESULTS

6.1 EMISSION STANDARD EN 55014-1:2006+A1:2009+A2:2011

Article	TEST	TEST SPECIFICATION	RESULTS			
			P	F	NA	Rem
4.1	<u>Disturbance Voltage Limit</u>	Operating conditions : according to the article 7.3.1.1				
4.1.1	Frequency range: 0.15 to 30 MHz	Port(s) : • AC mains port • Diagram No. <>	[]	[]	[x]	[1]
4.1.2	<u>Disturbance Power Limit</u>	Port(s) : • AC mains port • Diagram No. <>	[]	[]	[x]	[1]
4.1.3	<u>Radiated disturbance limits</u>	Measuring Distance: 3 m Antenna : - horizontal position - vertical position Diagram(s) No. <1>	[x] [x]	[] []	[] []	[] []
4.2	<u>Discontinuous Disturbance Limit</u>	Operating conditions : according to the article 7.3.1.1				
	Frequency range: 0.15 to 30 MHz	Port(s) : • AC mains port • Table(s) No. <>	[]	[]	[x]	[1]

P : pass – F : Fail – NA : not applicable – Rem : remark



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6.2 IMMUNITY STANDARD EN 55014-2:1997+A1:2001+A2:2008

☒ Apparatus category : II

Article	TEST	TEST SPECIFICATION	RESULTS			
			P	F	NA	Rem
5.1	<u>Electrostatic discharges</u> Table 1 Enclosure Performance Criterion B	Contact discharges Level : ± 4 kV Application points : • horizontal coupling plane	[X]	[]	[]	[2]
		• vertical coupling plane	[X]	[]	[]	[2]
		• metal	[X]	[]	[]	[2]
		Air discharges Level : ± 8 kV Application points : • enclosure	[X] []	[] []	[] []	[2] []
5.2	<u>Fast transients/bursts</u> Table 4 Alternative current power input and output port(s) Performance Criterion B	Level : ± 1 kV Repetition rate : 5 kHz Testing time : 2 min Port(s) : • AC mains	[] []	[] []	[X] []	[1] []
		•				
5.3	<u>Injected current 0.15 to 230 MHz</u> Table 7 Alternative current power input and output port(s) Performance Criterion A Article 8.4	Voltage level : 3V (unmodulated signal) Modulation frequency : 1 kHz Modulation depth : 80 % Frequency Step : 1% Dwell Time: 2 s Application with CDN-M2 Port(s) : • AC mains	[] []	[] []	[X] []	[1] []
		•				

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Article	TEST	TEST SPECIFICATION	RESULTS			
			P	F	NA	Rem
5.5	<u>Radio-frequency electromagnetic fields 80 to 1000 MHz</u> Table 11 Enclosure Performance criteria A	Test field strength : 3 V/m (unmodulated signal) Modulation frequency : 1 kHz Modulation depth : 80 % Frequency Step : 1% Dwell Time : 2 s <input type="checkbox"/> Logperiodic antenna <input type="checkbox"/> GTEM: - horizontal position - vertical position	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5.6	<u>Surges</u> Table 12 Alternative current power input and output port(s) Performance Criterion B	Tr/Th(μs) : 1.2/50 (8/20) Number of surges : 5 positive and 5 negative Phase angles : 90° and 270° Level : ± 1 kV Port(s) : • power input, between lines and neutral •	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
		Level : ± 2 kV Port(s) : • power input, between lines and earth • power input, between neutral and earth •	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

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Article	TEST	TEST SPECIFICATION	RESULTS			
			P	F	NA	Rem
5.7	<u>Voltage dips and voltage interruptions</u> Table 13 Alternative current power input port(s) Performance Criterion C	<u>Voltage interruptions</u> Test level : 0 % Ut -> 0 V Duration : 10 ms Phase angles : 0° and 180° Port(s) : • AC mains	[]	[]	[X]	[1]
		<u>Voltage dips</u> Test level : 40 % Ut -> 92 V Duration : 200 ms Phase angles : 0° Port(s) : • AC mains	[]	[]	[X]	[1]
		<u>Voltage dips</u> Test level : 70 % Ut -> 161 V Duration : 500 ms Phase angles : 0° Port(s) : • AC mains	[]	[]	[X]	[1]

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Remark(s) :

- 1 : EUT is power supplied by battery.
- 2 : During test, no change of operation state.



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7 PHOTOGRAPHS OF THE TEST CONFIGURATION

RE



ESD



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8 CONCLUSION

The apparatuses MANICURE AND PEDICURE SET and model WL-H is in compliance with the requirements of the standards EN 55014-1:2006+A1:2009+A2:2011, EN 55014-2:1997+A1:2001+A2:2008.

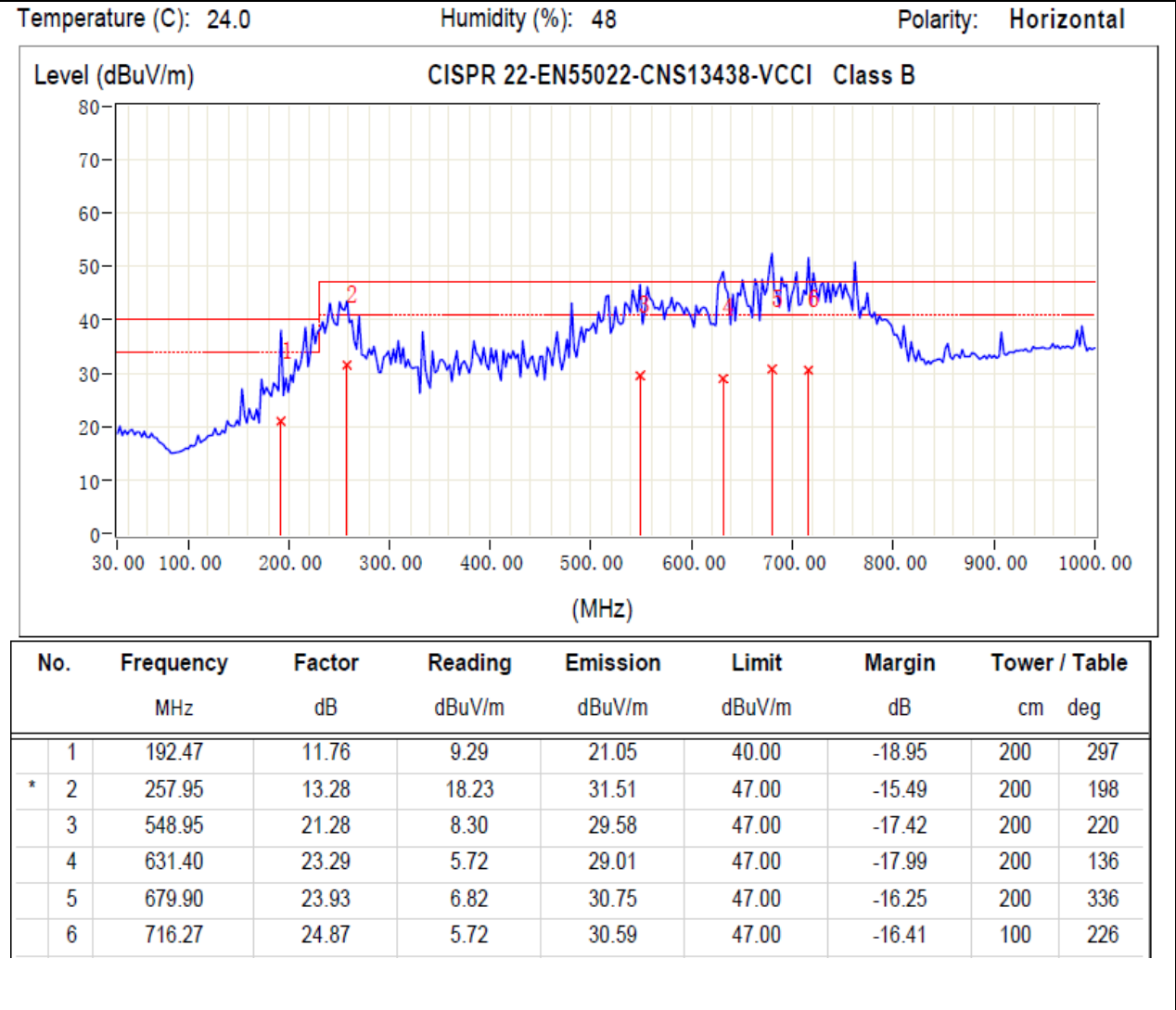


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Diagram No. 1

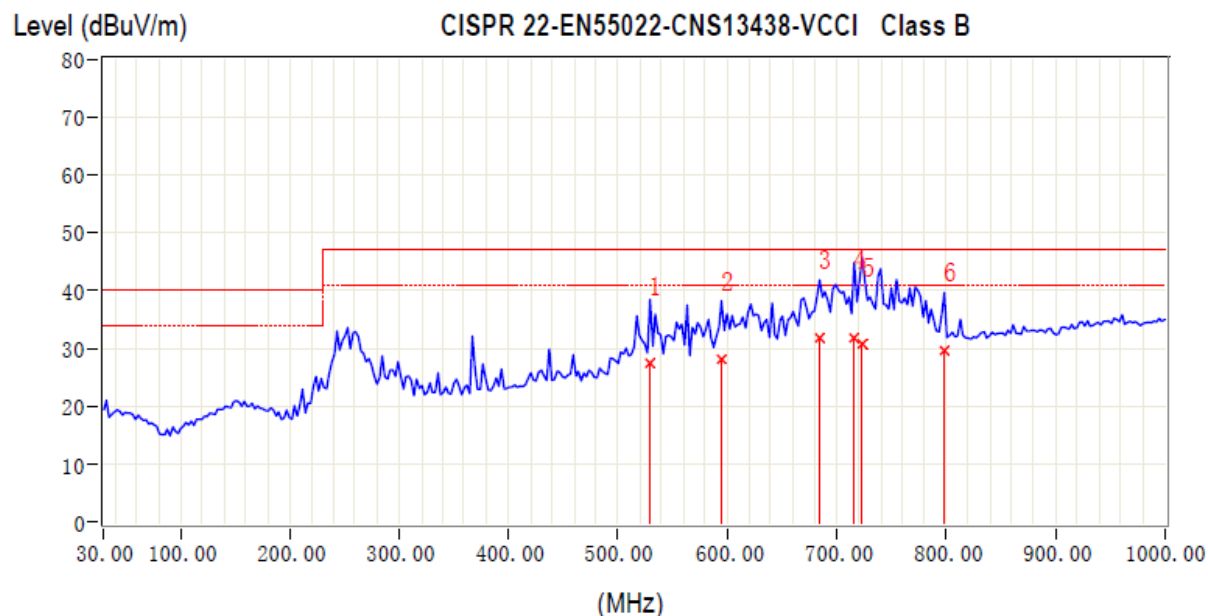




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Continued

Temperature (C): 24.0 Humidity (%): 48 Polarity: Vertical



No.	Frequency MHz	Factor dB	Reading dBuV/m	Emission dBuV/m	Limit dBuV/m	Margin dB	Tower / Table cm deg	
1	529.55	20.49	6.97	27.46	47.00	-19.54	100	120
2	595.02	22.62	5.56	28.18	47.00	-18.82	100	188
* 3	684.75	24.03	7.81	31.84	47.00	-15.16	100	257
4	716.27	24.87	6.97	31.84	47.00	-15.16	100	221
5	723.55	25.10	5.64	30.74	47.00	-16.26	100	223
6	798.73	26.32	3.34	29.66	47.00	-17.34	100	136

