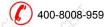


# OVIS-CERTI EMC REPORT

DV iS-CERT	Page 1 of 41 Report No.:OViS202101-022E
	EMC REPORT
Product Type:	Sprayer West Company of the Company
Model No.:	CL-16A (Cover Model See Appendix I)
Trademark:	N/A SEE SEE SEE SEE
Applicant:	Taizhou City Hangyu Plastic Co., Ltd No. 1008 Qihang Road, Binhai Industry Zone,Jiaojiang,Taizhou, Zhejiang ,China
Manufacturer:	Taizhou City Hangyu Plastic Co., Ltd No. 1008 Qihang Road, Binhai Industry Zone,Jiaojiang,Taizhou, Zhejiang ,China
Report Number:	OViS202101-022E
Testing Standard:	EN 55014-1:2017+A11:2020, EN 55014-2:2015, EN IEC 61000-3-2:2019, EN 61000-3-3:2013+A1:2019
Date of Test:	Jan. 12, 2021 to Jan. 20, 2021
Date of Report:	Jan. 21, 2021
Test Result:	
	of distribution distribution distribution distribution

Succession of the succession o This Test Report is issued by the Company subject to its Conditions of issuance of Test Reports printed overleaf and is intended for your exclusive use. Attention is drawn to the limitations of liability indemnification and jurisdictional policies defined therein. This test report includes all of the tests requested by you and the results there of based upon the information that you provided. You have 30 days from date of issuance of this test report to notify us of any 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.

\*\*MITING\*\* The MITING\*\* OVIS:CF S.CERT





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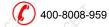
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## TEST REPORT DESCRIPTION

Applicant : Taizhou City Hangyu Plastic Co., Ltd

Manufacturer : Taizhou City Hangyu Plastic Co., Ltd

Trade Mark : N/A

EUT : Sprayer

Model No : See Appendix I

Power Supply : Input Voltage: 230V, 50Hz, Output Voltage: 12V, 8Ah

Remark : Use CL-16A do all the tests

## Measurement Procedure Used:

EN 55014-1:2017+A11:2020, EN 55014-2:2015,

EN IEC 61000-3-2:2019,

EN 61000-3-3:2013+A1:2019

(IEC 61000-4-2:2008, IEC 61000-4-3:2006+A1:2007+A2:2010, IEC 61000-4-4:2012,

IEC 61000-4-5:2014, IEC 61000-4-6:2013, IEC 61000-4-11:2004)

The device described above is tested by Zhejiang European African Testing&Certification Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Zhejiang European African Testing&Certification Co., Ltd. is assumed full of responsibility for the accuracy and completeness of these measurements.

Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the EN 55014-1, EN 61000-3-2, EN 61000-3-3 and EN 55014-2 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Zhejiang European African Testing&Certification Co., Ltd.

Prepared by :

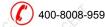
(Caroline Chen)

Reviewer by

(Sam Jin

Approved by

L/IV LA

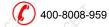




## 1. TEST RESULTS SUMMARY

## OVIS-CERT OVIS-CERT OVIS-CERT **Test Results Summary**

	Test Results Summary	
	Test Items	Test Results
1	Power Line Conducted Emission Test	PASS
5 2	Disturbance Power Test	PASS
3	Harmonic Current Test	PASS
4	Voltage Fluctuations & Flicker Test	PASS
5	Electrostatic Discharge Test	PASS
6	Radio Frequency Electromagnetic Fields	PASS
7	Electrical Fast Transient/Burst Test	PASS NIS
8	Surge Test	PASS
5 9	Injected Currents Susceptibility Test	PASS
10	Voltage Dips And Interruptions Test	PASS
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	0, 0, 0, 0, 0, 0, 0,	
		ising office, office, office,





## 2.GENERAL INFORMATION

## 2.1.Report Information

- 2.1.1. This report is not a certificate of quality, it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that Zhejiang European African Testing&Certification Co., Ltd. approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that Zhejiang European African Testing&Certification Co., Ltd. in any way guarantees the later performance of the product/equipment.
- 2.1.2. The sample/s mentioned in this report is/are supplied by applicant, Zhejiang European African Testing&Certification Co., Ltd. Therefore assumes no responsibility for the accuracy of information on the brand names, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the applicant at an additional fee. No third part can obtain a copy of this report through Zhejiang European African Testing&Certification Co., Ltd., unless the applicant has authorized Zhejiang European African Testing&Certification Co., Ltd. in writing to do so.

## 2.2.Description of Device (EUT)

Address

Address

Description : Sprayer

Number Model : CL-16A

Applicant : Taizhou City Hangyu Plastic Co., Ltd

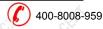
No. 1008 Qihang Road, Binhai Industry Zone,

Jiaojiang, Taizhou, Zhejiang, China

Manufacturer : Taizhou City Hangyu Plastic Co., Ltd

No. 1008 Qihang Road, Binhai Industry Zone,

Jiaojiang, Taizhou, Zhejiang, China







## 2.3. Test Facility

Site Description

Zhejiang European African Testing&Certification Co., Ltd. Tested by

4th Floor, Building 4, No. 888 Donghuan Road, Site Location

Development Zone, Taizhou City, Zhejiang P.R.China

## 2.4. Test Uncertainty

±2.66dB Conducted Emission Uncertainty = ±3.26dB Radiated Emission Uncertainty

## 2.5. Test Condition

Test Mode: ON

## 2.6. Test Conditions

-. ∠∠ ∪-28℃ Relative Humidity: 45%-68%





## 2.7.Performance Criterion

### Performance criterion A:

The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

## Performance criterion B:

The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however. No change of actual operating state or stored data is allowed, of the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

## Performance 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.

e shall constitute your unqualified acceptance of the completeness of this report,the tests conducted and the correctness of the report

地址浙江省台州市开发区东环大道 888 号 4 幢 4 层 및 www.ovis-lab.com ☒ info@ovis-lab.com

Add-4th Floor, Building 4, No. 888 Donghuan Road,Development Zone, Taiz/hou City, Zhejiang P.R.China

Report No.: OViS202101-022E



## 3. TEST INSTRUCMENT USED

## 3.1. For Power Line Conducted Emission Test (In Shielding Room)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	ROHDE&SCH WARZ	ESCS30	828985/018	2020.07.15	1 Year
2.	LISN	ROHDE&SCH WARZ	ESH2-Z5	834549/005	2020.07.15	1 Year
3. \$	50Ω Coaxial Switch	ANRITSU	MP59B	M20531	2020.07.15	1 Year
4.	Pulse Limiter	ROHDE&SCH WARZ	ESH3-Z2	100006	2020.07.15	1 Year
55	Voltage Probe	ROHDE&SCH WARZ	TK9416	N/A	NCR	NCR

## 3.2. For Disturbance Power Test (In Shielding Room)

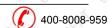
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1:5	Spectrum analyzer	ADVANTEST	R3261C	51720141	2020.07.15	1 Year
2.	EMI Test receiver	R&S	ESS	92822-1	2020.07.15	1 Year
3. <	Pre Amplifier	Anritsu	MH648A	0983	2020.07.15	1 Year
4.5	Absorbing Clamp	R&S	MDS-21	837/23	2020.07.15	1 Year
5.	Absorbing Clamp	R&S	MDS-21	837/24	2020.07.15	1 Year
6.	Absorbing Clamp	Kyoritsu	KT-20	8220	2020.07.15	1 Year
7.5	RF Selector	TOYO	NS4000	432099	NCR	NCR
8.	Remote Controller	TOYO	MAC	N/A	NCR	NCR O

## 3.3. For Harmonic / Flicker Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Signal Conditioning Unit	SCHAFFNER	CCN1000-1	23980/7	2020.07.15	1 Year
2.5	Signal Phase Impedance Network	SCHAFFNER	INA2152	0929-2	2020.07.15	1 Year
3.	5KVA AC Power Source	SCHAFFNER	NSG1007	2983332	2020.07.15	1 Year

## 3.4. For Electrostatic Discharge Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.55	ESD Tester	Noiseken	ESS-200AX	0223	2020.07.15	1 Year





## 3.5. For Radio Frequency Electromagnetic Fields Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	RF Power Meter Dual Channel	BOONTON	4232A	10539	2020.07.15	1 Year
2.	50ohm Diode Power Sensor	BOONTON	51011EMC	34236/34238	2020.07.15	1 Year
3,5,0	Broad-band horn Antenna	SCHWARZB ECK	BBHA9120 L3F	332	2020.07.15	1 Year
4.	Power Amplifier	PRANA	A .	N/A	2020.07.15	1 Year
5. 🚫	Power Amplifier	MILMEGA	AS0102-55	N/A	2020.07.15	1 Year
6.	Signal Generator	AEROFLEX	20238	N/A	2020.07.15	1 Year
7.	Field Strength Meter	HOLADAY	HI-6005	N/A	2020.07.15	1 Year
8.5	RS232 Fiber optic modem	HOLADAY	HI-4413P	N/A	2020.07.15	1 Year
9.	Logper. Antenna	SCHWARZB ECK	VULP9118E	N/A	2020.07.15	1 Year

Report No.:OViS202101-022E

## 3.6. For Electrical Fast Transient/Burst Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
01,5	Ultra Compact Simulator	EM TEST	UCS500M6	0500-19	2020.07.15	1 Year

## 3.7. For Surge Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
T.	Surge Tester	HAEFELY	PSURGE4.1	080107-04	2020.07.15	1 Year

## 3.8. For Injected Currents Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
3.	Signal Generator	IFR	2032	203002/100	2020.07.15	1 Year
2.	Amplifier	A&R	150W1000	301584	2020.07.15	1 Year

## 3.9. For Voltage Dips and Interruptions Test

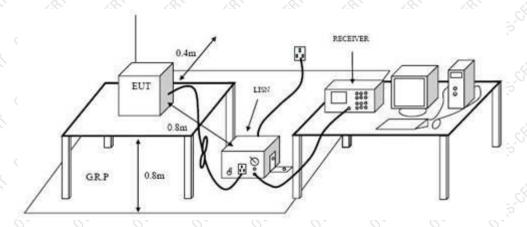
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1. 😸	Dips Tester	HEAFELY	PLINE 1610	083732-18	2020.07.15	1 Year





## 4. POWER LINE CONDUCTED EMISSION TEST

## 4.1. Block Diagram of Test Setup



## 4.2. Test Standard

EN 55014-1:2017+A11:2020

## 4.3. Power Line Conducted Emission Limit

Fraguanay	At AC Mains	Terminals	At Load Terminals		
Frequency	Quasi-peak Level dB(μV)	Average Level dB(μV)	Quasi-peak Level dB(μV)	Average Level dB(μV)	
150 kHz~500 kHz	66 ~ 56	59 ~ 46	.5 80 .5	70	
500kHz~5MHz	56	46	74	64	
5MHz~30MHz	60	50 50	74	64	

Remark: Decreasing linearly with logarithm of frequency.

## 4.4. EUT Configuration on Test

The following equipments are installed on RF LINE VOLTAGE test to meet EN 55014-1 requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

## 4.5. Sprayer (EUT)

Model Number: CL-16A

Manufacturer: Taizhou City Hangyu Plastic Co., Ltd







## 4.6. Operating Condition of EUT

- 4.6.1. Setup the EUT as shown in Section 4.1.
- 4.6.2. Turn on the power of all equipments.
- 4.6.3. Let the EUT work in test mode (on) and test it.

## 4.7. Test Procedure

The EUT is put on the ground and connected to the AC mains through a Line Impedance Stabilization Network (L.I.S.N.). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission according to the EN 55014-1 regulations during conducted emission test.

The bandwidth of the test receiver (R&S Test Receiver ESCS30) is set at 10 kHz.

The frequency range from 150 kHz to 30 MHz is checked.

## 4.8. Power Line Conducted Emission Test Results PASS.

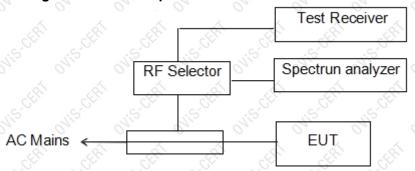


Report No.:OViS202101-022E



## 5. DISTURBANCE POWER TEST

## 5.1. Block Diagram of Test Setup



## 5.2. Disturbance Power Test Standard and Limit

## 5.2.1. Test Standard

EN 55014-1:2017+A11:2020

## 5.2.2. Test Limit

All emanations from devices or system including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

Frequency	Interference Power Limits (dBpW)					
MHz	Quasi-peak Value	Average Value				
30 ~ 300	45 Increasing Linearly with Frequency to 55	35 Increasing Linearly with Frequency to 45				

## 5.3. EUT Configuration on Test

The EN 55014-1 regulations test method must be used to find the maximum emission during radiated emission test.

The configuration of EUT is the same as used in conducted emission test. Please refer to Section 4.3.

## 5.4. Operating Condition of EUT

Same as conducted test which is listed in section 4.4. Except the test set up replaced by section 5.1





## 5.5. Test Procedure

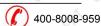
The EUT is placed on the ground and away from other metallic surface at least 0.4m. It is connected to the power mains through an extension cord of 6m min. The absorber clamp clamps the cord and moves from the far end to the EUT to measure the disturbing energy emitted from the cord.

The bandwidth of the test receiver(R&S Test Receiver ESS) is set at 120kHz.

All the test results are listed in Section 5.6.

## 5.6. Test Results

PASS.

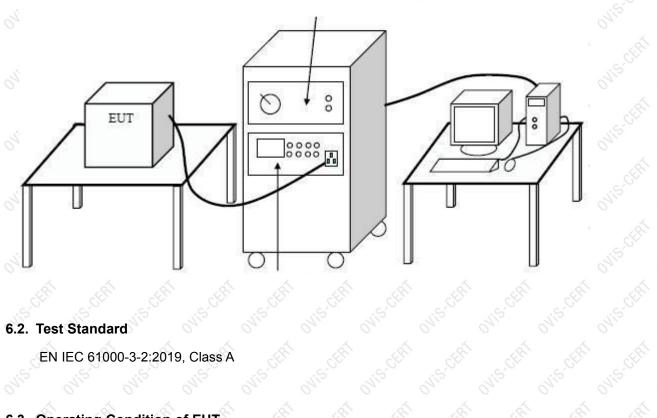




## 6. HARMONIC CURRENT TEST

## 6.1. Block Diagram of Test Setup

### HARMONIC & FLICKER ANALYSER



## 6.2. Test Standard

EN IEC 61000-3-2:2019, Class A

## 6.3. Operating Condition of EUT

Same as Section 4.4.except the test set up replaced by Section 6.1.

Test Results OVISCERT

## 6.4. Test Results

PASS.





## 7. VOLTAGE FLUCTUATIONS & FLICKER TEST

## 7.1. Block Diagram of Test Setup

Same as Section 6.1.

## 7.2. Test Standard

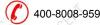
EN 61000-3-3:2013+A1:2019

## 7.3. Operating Condition of EUT

Same as Section 6.3

## 7.4. Test Results PASS.

This Test Report is issued by the Company subject to its Conditions of issuance of Test Reports printed overleaf and is intended for your exclusive use. Attention is drawn to the limitations of liability indemnification and jurisdictional policies defined therein. This test report includes all of the tests requested by you and the results there of based upon the information that you provided. You have 30 days from date of issuance of this test report to notify us of any error or omission caused by our necessary of the completeness of this report, the tests conducted and the correctness of the report

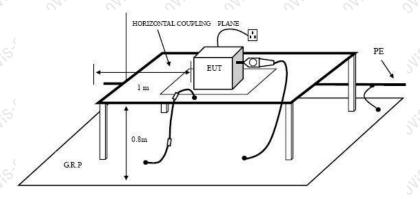




## 8. ELECTROSTATIC DISCHARGE TEST

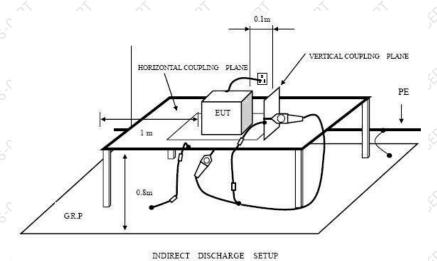
## 8.1. Block Diagram of Test Setup

## 8.1.1. Block Diagram of ESD Test Setup (Direct Discharge)



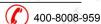
DIRECT DISCHARGE SETUP

## 8.1.2. Block Diagram of ESD Test Setup (Indirect Discharge)



## 8.2. Test Standard

EN 55014-2:2015 (EN 61000-4-2:2009) Severity Level 3 for Air Dischar ge at 8kV Severity Level 2 for Contact Discharge at 4k





## 8.3. Severity Levels and Performance Criterion

## 8.3.1. Severity level

Level	Test Voltage Contact Discharge (kV)	Test Voltage Air Discharge (kV)				
01.	2 0	2				
2. (8)	4	4 (2)				
3.	,5 ,5 6 ,5 ,5	.5 8				
4.	8 0, 0,	15				
X. (A)	Special	Special				

## 8.3.2. Performance criterion: B

## 8.4. EUT Configuration on Test

The configurations of EUT are listed in Section 4.4.

## 8.5. Operating Condition of EUT

- 8.5.1. Setup the EUT as shown in Section 8.1.
- 8.5.2. Turn on the power of all equipments.
- 8.5.3.Let the EUT work in test mode (ON) and test it.

## 8.6. Test Procedure

## 8.6.1. Air Discharge:

This test is done on non-conductive surfaces. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

## 8.6.2. Contact Discharge:

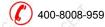
All the procedure shall be same as Section 8.6.1. Except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

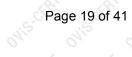
## 8.6.3. Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

## 8.6.4. Indirect discharge for vertical coupling plane

At least 20 single discharges shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.



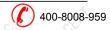






## 8.7. Test Results PASS.

Please refer to the following page.





## **Electrostatic Discharge Test Results**

Zhejiang European African Testing&Certification Co., Ltd.

Date: Jan. 15, 2021

Applicant : Taizhou City Hangyu Plastic Co., Ltd Test Date : Jan. 15, 2021

EUT : Sprayer Temperature : 24°C

M/N : CL-16A | Humidity : 52%

Power Supply: AC 230V, 50Hz Test Mode: ON

Test Engineer : Martina

Air Discharge: ±8kV For each point positive 10 times and negative 10 times

discharge.

Contact Discharge: ±4kV

ovie ovie	Location	celeti e celeti	Kind A-Air Discharge C-Contact Discharge	Result
Slots	2 2 2 2 2)	10 points	A A A	PASS
Surface	ite ite	10 points	A STATE OF THE STA	PASS
Screw		5 points	¢ c	PASS
HCP	Jr. Wig.Cr. Wi	5 points	Sign Misign Chisign Misign	PASS
VCP		5 points	LEFT C LEFT	PASS
Remark:	OVIS' OVI	01151 011	is ones, ones, ones,	ONIS'S ON
	à. à.			

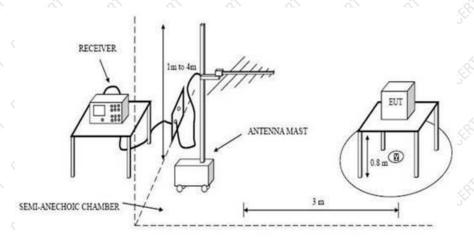
Discharge should be considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).

Reviewer: S

ina (\*\*) 400-8008-959

## 9. RF FIELD STRENGTH SUSCEPTIBILITY TEST

## 9.1. Block Diagram of Test Setup



## 9.2. Test Standard

EN 55014-2:2015 (EN 61000-4-3:2006+A2:2010 Severity Level: 2, 3V/m)

## 9.3. Severity level and Performance criterion

## 9.3.1. Severity level

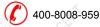
Level	Field Strength V/m				
2 P 1. 2 P	LPÍ	12	-URI		
2. 5	.5.0	3	.5		
35	011 011	10	7		
ÁX. Á		Special	100		

9.3.2. Performance criterion: A

## 9.4. EUT Configuration on Test

The test must be used to find severity level in different phrase performance criterion during RF field strength susceptibility test.

The configuration of EUT is same as used in RF field strength susceptibility test.





## 9.5. Operating Condition of EUT

- 9.5.1. Setup the EUT as shown on Section 9.1.
- 9.5.2. Turn on the power of all equipments.
- 9.5.3. Let the EUT work in test mode (ON) and measure it and test it.

## 9.6. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above the ground. The EUT is set 3 meters away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna is set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, a CCD camera is used to monitor the EUT. All the scanning conditions are as follows:

Condition of Test	Remarks
1. Fielded Strength	3 V/m (Severity Level 2)
2. Radiated Signal	Modulated
3. Scanning Frequency	80-1000 MHz,1.4-6GHz
4. Sweeping time of radiated	0.0015 decade/s
5. Dwell Time	1 Sec.

## 9.7. Test Results

PASS

OVIS-CERT OVIS-CERT Please refer to the following page.







## **RF Field Strength Susceptibility Test Results**

Zhejiang European African Testing&Certification Co., Ltd.

Date: Jan. 15, 2021 **Applicant** : Taizhou City Hangyu Plastic Co., Ltd Jan. 15, 2021 **Test Date** ĚUT 24℃ Sprayer Temperature: M/N CL-16A Humidity 52% Test Engineer: Martina Test Mode ON Frequency Range: Modulation:  $\boxtimes \mathsf{AM}$ Pulse ☐ 1 kHz 80% none Criterion: A Frequency Range: 80-1000 MHz,1.4-6GHz 1% 1% Steps Horizontal Vertical Front **Pass Pass** Right Pass **Pass** Pass Rear Pass

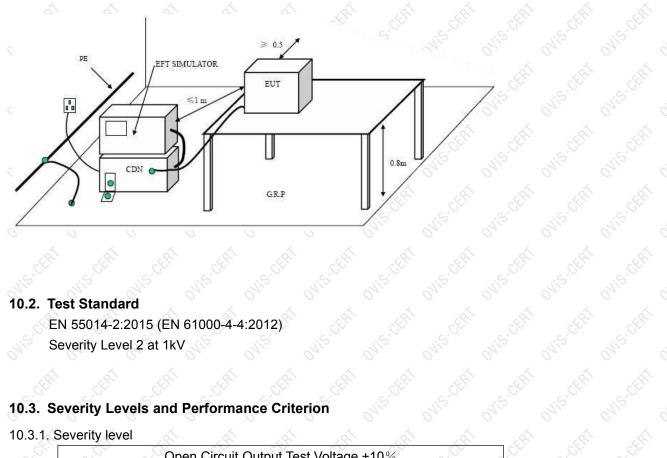
Reviewer: Sam In





## 10. ELECTRICAL FAST TRANSIENT/BURST TEST

## 10.1. Block Diagram of Test Setup



## 10.2. Test Standard

EN 55014-2:2015 (EN 61000-4-4:2012) Severity Level 2 at 1kV

## 10.3. Severity Levels and Performance Criterion

## 10.3.1. Severity level

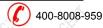
5	Open Circuit Output Test Voltage ±10%						
Level	On Power Supply Lines	On I/O (Input/Output) Signal data and control lines					
.51.	0.5 kV	0.25 kV					
2.	1 kV	0.5 kV					
3.2	2 kV	1kV					
<b>4</b> .	% 4 kV	5 2 kV					
X	Special	Special					
D) D)	A A A	A A A					

## 10.3.2. Performance criterion: B

## 10.4. EUT Configuration on Test

The configurations of EUT are listed in Section 4.4.

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## 10.5. Operating Condition of EUT

- 10.5.1. Setup the EUT as shown in Section 10.1.
- 10.5.2. Turn on the power of all equipments.
- 10.5.3. Let the EUT work in test mode (ON) and test it.

### 10.6. Test Procedure

The EUT is put on the table which is 0.8 meter high above the ground. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between the EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

## 10.6.1. For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 mins.

## 10.6.2. For signal lines and control lines ports:

It's unnecessary to test.

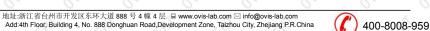
## 10.6.3. For DC output line ports:

It's unnecessary to test.

## 10.7. Test Results

PASS.

Please refer to the following page.



Report No.:OViS202101-022E



## Electrical Fast Transient/Burst Test Results

Zhejiang European African Testing&Certification Co., Ltd.

Date: Jan. 15, 2021

Applicant	Tai Ltc		Hangyu Pla	estic Co.,	Test Date	OVISIT	Jan. 15	, 2021	,5° 0'
EUT	: Sp	rayer			Temperat	ure	<b>24</b> ℃		
M/N	gri : CL	-16A			Humidity	C.CERT	52%		
Power Su	SERT SE	230V, 50H artina	tz oviszett		Test Mode	OVIS-CERT	ON		
Inject Pla	ace : AC Ma	ins	KI CEF	CERT	SER	CERT	CERT	CERT	CERT
Inject Line	Voltage kV	Inject Time(s)	Inject Method	Results	Inject Line	Voltage kV	Inject Time(s)	Inject Method	Results
Dyisi	£1	120	Direct	PASS	L+N+PE	011 <sup>15</sup> ±1	120	Direct	PASS
Nig	±1,5	120	Direct	PASS	OVIS-CER	ON'S CER	Wis-CER C	is ch	Sich
PE	±1,5.0	120	Direct	PASS	Wis Chi	ON'S CERT	WiS CERT	is cliff	S.CERT O
Remark:	iffic ovision	Pi Ovis-cti	KÍ OVIS-CERÍ	OViSCERI	OVIS-CERT	ON'S CERT	ON'S CERT	Vis-CERT OF	is CERT OF
ERI WE					WiS-CERT				

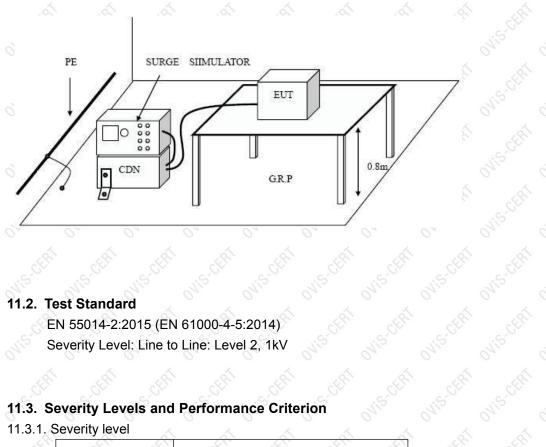
Reviewer:





## 11. ELECTRICAL FAST TRANSIENT/BURST TEST

## 11.1. Block Diagram of Test Setup



## 11.2. Test Standard

EN 55014-2:2015 (EN 61000-4-5:2014) Severity Level: Line to Line: Level 2, 1kV

## 11.3. Severity Levels and Performance Criterion

## 11.3.1. Severity level

Severity Level	Open-Circuit Test Voltage kV
<u>, (1</u>	0.5
2 .5	
3 0	011 011 2.0 011
4	4.0
* 116	Special

Performance criterion: B

## 11.4. EUT Configuration on Test

The configurations of EUT are listed in Section 4.4

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## 11.5. Operating Condition of EUT

- 11.5.1. Setup the EUT as shown in Section 11.1.
- 11.5.2. Turn on the power of all equipments.
- 11.5.3. Let the EUT work in test mode (ON) and test it.

### 11.6. Test Procedure

- 1) Set up the EUT and test generator as shown on Section 11.1.
- 2) For line to line coupling mode, provide a 1.0kV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points, and for active line / neutral line to ground are same except test level is 2kV.
- 3) At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
- 4) Different phase angles are done individually.
- Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

## 11.7. Test Results

PASS.

Please refer to the following page.



Report No.:OViS202101-022E



## **Surge Immunity Test Results**

Zhejiang European African Testing&Certification Co., Ltd.

Date: Jan. 15, 2021

Applicant	41	Taizhou City	/ Hangyu	Plastic Co	I td	Test Date		Jan.	15 2	021
Αρριισαίτι	(·)	raizilou Oity	riangyu	i i lastic co.,	Ltu	icst Date		oan.	10, 2	.02 1

EUT : Sprayer Temperature : 24°C

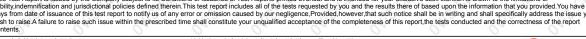
M/N : CL-16A Humidity : 52%

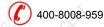
Power Supply: AC 230V, 50Hz Test Mode: ON

Test Engineer : Martina

Location	Polarity	Phase Angle	No of Pulse	Pulse Voltage (kV)	Result
ONE+N ONE	(±)	0110	Mis 5 Mis	01.0	PASS
ERI CERI	diff ± diff	90	5	1.0	PASS
olis olis	<u>+</u> ;%	180	Nis 5 Nis	1.0	PASS
eri seri	(f) ± (f)	270	5	1.0	PASS
L+PE N+PE	±,5	01:0	Nie 5 Nie	2.0	PASS
eri ereri	(K) ± (K)	90	5	2.0	PASS
Nie, Nie	±5	180	Ji5 5 Jis	2.0	PASS
	& ± &	270	5	2.0	PASS
1.5.00	, J. 1. 1. 2. Cr.	115.00	1.6.00	, CC 11.5.CC	5.CC 11.5.CC 11.5.CC
0, 0,	0	0,	0, 0,	0, 0,	
dr. Colin	Ser Ser	S. Oftic	. C. CEL	icen excen	Setti Setti
Remark:	01/1	ONE	011. 011.	011 01	0110 0110
			OVIS-CERT OVIS	CERT ONS CERT ON	
			Wis-CERT WE	CERT WIS CERT	

Reviewer: Sam In

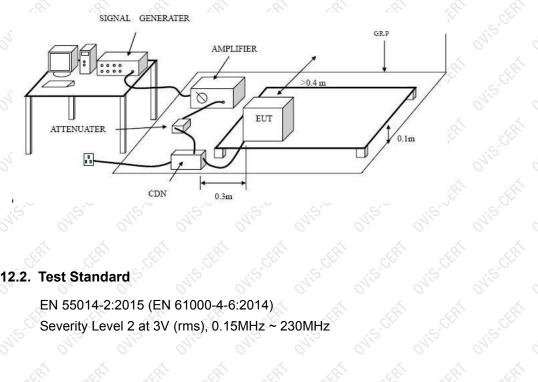






## 12. INJECTED CURRENTS SUSCEPTIBILITY TEST

## 12.1. Block Diagram of Test Setup



## 12.2. Test Standard

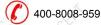
## 12.3. Severity Levels and Performance Criterion

## 12.3.1. Severity level

	Cotte Cotte				
2.2. Te	est Standard				
E	N 55014-2:2015 (EN	I 61000-4-6:2014)			
Se	everity Level 2 at 3V	(rms), 0.15MHz ~ 2	30MHz		
2.3. Se	everity Levels and	Performance Crit	erion		
	1,13	Performance Crit	erion		
	Severity level	Only Only	OVISERI	ONIS CER	
	1,13	Performance Crit	OVISERI	OVIS-CER	
	Severity level	Only Only	OVISERI	ovis citi	
	Severity level	Only Only	OVISERI	ovis cer	
	Severity level  Level  1.	Field Stre	ngth V/m	olis cel	

## 12.3.2. Performance criterion: A OViSiCERT

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## 12.4. EUT Configuration on Test

The configurations of EUT are listed in Section 4.4

## 12.5. Operating Condition of EUT

- 12.5.1. Setup the EUT as shown in Section 12.1.
- 12.5.2. Turn on the power of all equipments.
- 12.5.3. Let the EUT work in test mode (ON) and test it.

## 12.6. Test Procedure

- 1) Set up the EUT and test generator as shown on Section 12.1.
- 2) Let the EUT work in test mode and test it.
- 3) The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
- 4) The disturbance signal described below is injected to EUT through CDN.
- 5) The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- 6) The frequency range is swept from 150kHz to 230MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1 kHz sine wave. Suitable for over 1m refrigerators
- 7) The rate of sweep shall not exceed 1.5\*10-3decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion

## 12.7. Test Results

PASS.

Please refer to the following page.





## **Injected Currents Susceptibility Test Results**

Zhejiang European African Testing&Certification Co., Ltd.

Date: Jan. 18, 2021

Applicant : Taizhou City Hangyu Plastic Co., Ltd | Test Date : Jan. 18, 2021

EUT : Sprayer Temperature : 24°C

M/N : CL-16A Humidity : 52%

Power Supply: AC 230V, 50Hz

Test Engineer : Martina

Frequency Range (MHz)	Injected Position	Strength	Criterion	Result
0.15 ~ 230	AC Line	3V(rms), Unmodulated	Olio Alio	PASS

Remark: 1. Modulation Signal:1kHz 80% AM

2. Standard Applied : EN 61000-4-6:2014

Note:

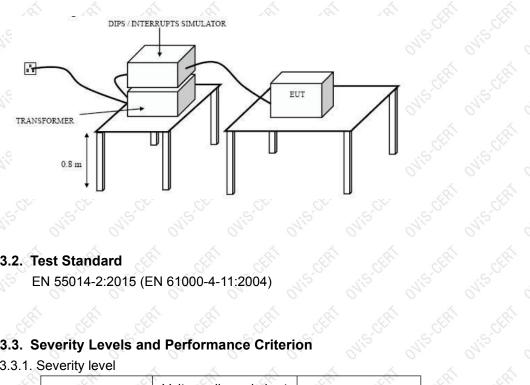
Reviewer: Sam In





## 13. VOLTAGE DIPS AND INTERRUPTIONS TEST

## 13.1. Block Diagram of Test Setup



## 13.2. Test Standard

EN 55014-2:2015 (EN 61000-4-11:2004)

## 13.3. Severity Levels and Performance Criterion

## 13.3.1. Severity level

Test Level %U <sub>T</sub>	Voltage dip and short interruptions %U <sub>T</sub>	Duration (in period)
_c( <sup>1</sup> 0 _c( <sup>1</sup>	100	0.5
40 01113	60	10
70	30	25

## Olis-Clff 13.3.2. Performance criterion: C

## 13.4. EUT Configuration on Test

The configurations of EUT are listed in Section 4.4.

地址:浙江省台州市开发区东环大道 888 号 4 幢 4 层。⊒ www.ovis-lab.com ⊠ info@ovis-lab.com Add:4th Floor, Building 4, No. 888 Donghuan Road,Development Zone, Taizhou City, Zhejiang P.R.China 400-8008-959



## 13.5. Operating Condition of EUT

- 13.5.1. Setup the EUT as shown in Section 13.1.
- 13.5.2. Turn on the power of all equipments.
- 13.5.3. Let the EUT work in test mode (ON) and test it.

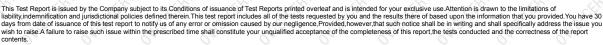
## 13.6. Test Procedure

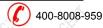
- 1) Set up the EUT and test generator as shown on Section 13.1.
- 2) The interruptions are introduced at selected phase angles with specified duration.
- 3) Record any degradation of performance.

## 13.7. Test Results

PASS.

Please refer to the following page.







## **Voltage Dips and Interruptions Test Results**

Zhejiang European African Testing&Certification Co., Ltd.

Date: Jan. 18, 2021

Applicant Taizhou City Hangyu Plastic Co., Ltd Jan. 18, 2021 Test Date

EUT 24°C Sprayer Temperature:

M/N CL-16A Humidity 52%

AC 230V, 50Hz Martina Power Supply: Test Engineer:

Test Model: ON

Test Level % U <sub>T</sub>	Voltage Dips & Short Interruptions % U <sub>T</sub>	Duration (in period)	Phase Angle	Criterion	Result
eri O eri	100	0.5P	0°~360°	В	PASS
40	60	10P	0°~360°	Nis B Nis	PASS
70,6	30	25P	0°~360°	C	PASS

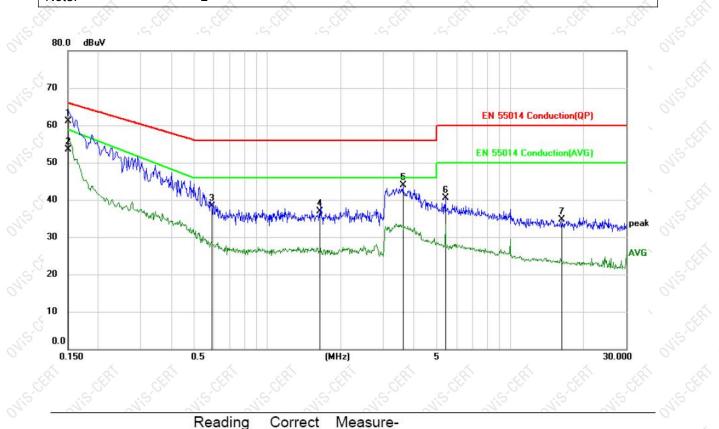
Remark: U<sub>T</sub> is the rated voltage for the equipment.

Reviewer:





e js.ct. ovis				
OV iS-CERT	chili chiling	36 of 41	Report No.:OViS202101-02	ZE CHÉ
Job No.:	cepti cepti cepti	Power Source :	AC 230V	K CERT
Standard:	EN 55014	Temp.( °C)/Hum.(%RI	H) 24 °C/52%RH	115
Test item:	Conducted Test	Date:	2021/01/19	0,
EUT:	Sprayer	Time:		E CERT
Model:	CL-16A	Test By:	Martina	Wi5,0
Note:	Z L Z	× × × ×	9. 0.	X X

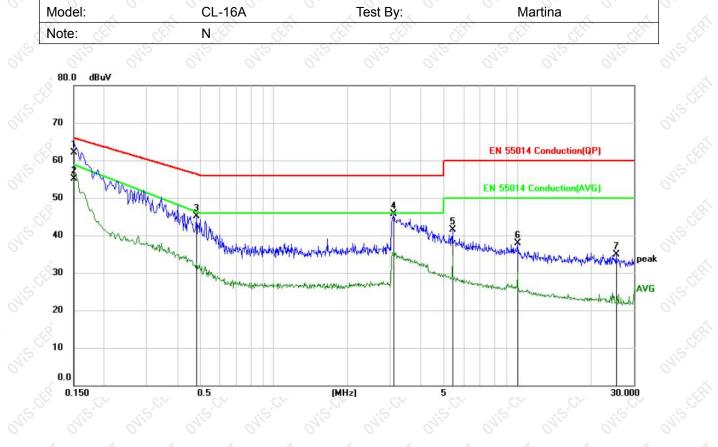


c ti	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	i	
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
, Q	1	*	0.1500	51.24	9.80	61.04	66.00	-4.96	QP	
30	2		0.1500	43.68	9.80	53.48	59.00	-5.52	AVG	
	3		0.5910	28.47	9.80	38.27	56.00	-17.73	peak	
58	4		1.6379	27.09	9.74	36.83	56.00	-19.17	peak	
	5		3.6210	34.14	9.75	43.89	56.00	-12.11	peak	
48	6		5.4120	30.79	9.80	40.59	60.00	-19.41	peak	
,	7		16.3680	24.81	9.80	34.61	60.00	-25.39	peak	
55.	1 01	S-CERT	OViS-CERÍ	ON'S CEPT ON	5-CERT OVICE	CERT OVISICE	AT OVIS!	iffi ovis	CERT OVISION	HÍ WIS-CERÍ
										eki ovis-ceki
, 8				- K	·81	A	2	NE S	Á.	£ . 6





Job No.:		Power Source :	AC 230V
Standard:	EN 55014	Temp.( °C)/Hum.(%RH)	24 ℃/52%RH
Test item:	Conducted Test	Date:	2021/01/19
EUT:	Sprayer	Time:	
Model:	CL-16A	Test By:	Martina
Note:	ET NOTE OF THE	Str. Str. Str.	CERT CERT

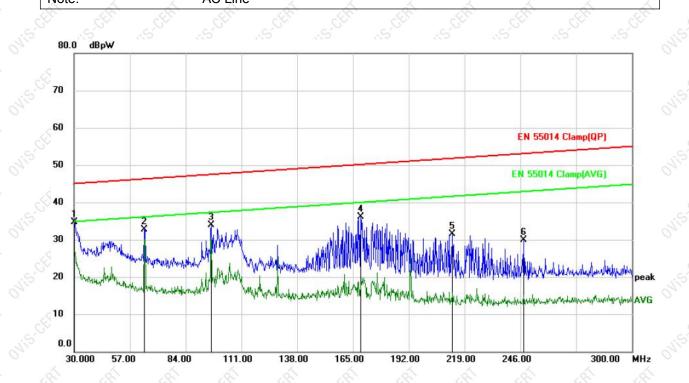


Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margir	1		0
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	_
	0.1500	52.25	9.80	62.05	66.00	-3.95	QP		, c
*	0.1500	45.32	9.80	55.12	59.00	-3.88	AVG		-7/
	0.4800	35.28	9.80	45.08	56.34	-11.26	peak		_
	3.0989	35.91	9.74	45.65	56.00	-10.35	peak		1
	5.4120	31.79	9.80	41.59	60.00	-18.41	peak		=
	9.9990	28.17	9.80	37.97	60.00	-22.03	peak		0.7
	25.3410	25.24	9.70	34.94	60.00	-25.06	peak		
>	C.CE.	CE. S	, j.	S. CE.	, CE	, Se	S. CE.	CE	-
	<b>Mk.</b> *	MHz 0.1500 * 0.1500 0.4800 3.0989 5.4120 9.9990	Mk. Freq. Level  MHz dBuV  0.1500 52.25  * 0.1500 45.32  0.4800 35.28  3.0989 35.91  5.4120 31.79  9.9990 28.17	Mk. Freq. Level Factor    MHz   dBuV   dB	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV           0.1500         52.25         9.80         62.05           *         0.1500         45.32         9.80         55.12           0.4800         35.28         9.80         45.08           3.0989         35.91         9.74         45.65           5.4120         31.79         9.80         41.59           9.9990         28.17         9.80         37.97	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dBuV         dBuV         dBuV           0.1500         52.25         9.80         62.05         66.00           *         0.1500         45.32         9.80         55.12         59.00           0.4800         35.28         9.80         45.08         56.34           3.0989         35.91         9.74         45.65         56.00           5.4120         31.79         9.80         41.59         60.00           9.9990         28.17         9.80         37.97         60.00	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dBuV         dBuV         dBuV         dBuV         dB           0.1500         52.25         9.80         62.05         66.00         -3.95           *         0.1500         45.32         9.80         55.12         59.00         -3.88           0.4800         35.28         9.80         45.08         56.34         -11.26           3.0989         35.91         9.74         45.65         56.00         -10.35           5.4120         31.79         9.80         41.59         60.00         -18.41           9.9990         28.17         9.80         37.97         60.00         -22.03	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV         dBuV         dB         Detector           0.1500         52.25         9.80         62.05         66.00         -3.95         QP           *         0.1500         45.32         9.80         55.12         59.00         -3.88         AVG           0.4800         35.28         9.80         45.08         56.34         -11.26         peak           3.0989         35.91         9.74         45.65         56.00         -10.35         peak           5.4120         31.79         9.80         41.59         60.00         -18.41         peak           9.9990         28.17         9.80         37.97         60.00         -22.03         peak	Mk.         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV         dB         Detector         Comment           0.1500         52.25         9.80         62.05         66.00         -3.95         QP           *         0.1500         45.32         9.80         55.12         59.00         -3.88         AVG           0.4800         35.28         9.80         45.08         56.34         -11.26         peak           3.0989         35.91         9.74         45.65         56.00         -10.35         peak           5.4120         31.79         9.80         41.59         60.00         -18.41         peak           9.9990         28.17         9.80         37.97         60.00         -22.03         peak





N.S.Cit.	, S.C.	ON'S Ch.	Nis-Ch. Onis-Ch.	ON'S CL	ONISCH	OVISICE	ONISICY	OVi5.CI	OVISIO
ov.	iS-CERT		JIS-CERT JIS-CE	age 38 of	41		Report	No.:OViS2	02101-02
	o No.:	On CERT	etti ett	ON CER	Power So	ource :	0,,	AC 230V	1 0,
Sta	andard:		EN 55014		Temp.( °C	)/Hum.(%R	(H) 2	24 ℃/52%F	RH (S)
Tes	st item:		Conducted Tes	į o	Date:		2	2021/01/19	
EU	IT: EEE		Sprayer		Time:				
(S) Mo	del:		CL-16A		Test By:		J.S.	Martina	
No	te:	Α,	AC Line	< ×	\ \		0	۷ ,	(



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Position	
		MHz	dBpW	dB	dBpW	dBpW	dB	Detector	cm	Comment
1	*	30.0000	7.34	27.45	34.79	45.00	-10.21	peak		
2		64.2800	9.85	22.95	32.80	46.27	-13.47	peak		
3		96.4800	10.81	23.07	33.88	47.46	-13.58	peak		
4		168.9600	14.81	21.29	36.10	50.15	-14.05	peak		
5		213.1200	11.32	20.16	31.48	51.78	-20.30	peak		
6		247.8000	9.43	20.51	29.94	53.07	-23.13	peak		
	-27	A CA	· ERI	ERI	-ERÍ			\$ 28	S LES	L. P.
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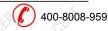
Appendix II Photo documentation Sprayer CL-16A

Detail of: CL-16A



Detail of: CL-16A







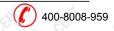
Appendix II Photo documentation Sprayer CL-16A

Detail of: CL-16A



**Detail of:** Button for CL-16A



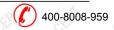




Appendix II Photo documentation Sprayer CL-16A

**Detail of:** Charger for CL-16A





**REMARKS** 

1. This report is invalid without the seal of special stamp for OViS test report and

invalid if altered.

2. The copy of this report is invalid without a new seal of special stamp for OViS test

report and invalid if altered.

3. This report is invalid without seals or signatures of Tester, Checker and Approval.

4. If there is no special announcement in this report, the informat ion of producer and

samples is not identified by OViS, the customer is responsible for truth of the samples.

5. Objections to the test report must be submitted to OViS within 15 days.

6. The test results shown in this report is only applicable for the samples supplied

directly by the customer and accepted by the test organization, the customer shall not

propagandize improperly without permission by OViS.

7. "P" means "pass", "F" means "fail", "N" or "—" means "not applicable" and

"means "not test".

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