

Page 1 of 25

Report No.: OViS202405011E-R1

EMC REPORT

Product Type:

Motor Unit

Model No.:

WX 15-5,WX 15-6,WX 15-7,WXR 15-5,WXW 15-5,GX 15-50,GX 15-60, GX 15-65,IRX 15-50,IRX 15-60,NPCW15-60,NP 15-60,NPCCW15-60, DPR 15-50,DPR 15-60,6XP 15-60,6XCP 15-60,VPG 5/1A,VPG 5/2A, VPG 7/1A,VPG 7/2A,VPW 6.7-2A,VPWR 6.7-2A,WXR 15-60,WXW 15-70, APX 15-50.1A,APX 15-60.1A,APX 15-50.2A,APX 15-60.2A,APW 15-50.1A, APW 15-60.1A,APW 15-50.2A,APW 15-60.2A,APWW15-50-2A, APG 15-50.1A,APG 15-60.1A,APG 15-50.2A,APG 15-60.2A

Trademark:

DUCA®

Applicant:

Worimex Iklimlendirme Sistemleri Sanayi ve Ticaret A.s. Zafer Mahallesi 146.sokak No: 13A Esenyurt/istanbul

Manufacturer:

Worimex Iklimlendirme Sistemleri Sanayi ve Ticaret A.s. Zafer Mahallesi 146.sokak No: 13A Esenyurt/istanbul

Factory:

Worimex Iklimlendirme Sistemleri Sanayi ve Ticaret A.s. Zafer Mahallesi 146.sokak No: 13A Esenyurt/istanbul

Report Number:

OViS202405011E-R1

Testing Standard:

EN IEC 61000-6-4:2019,EN IEC 61000-6-2:2019, BS EN IEC 61000-6-4:2019,BS EN IEC 61000-6-2:2019

Date of Test:

Apr. 26,2024 to May 16,2024

Date of Report:

May 17,2024

Test Result:

Positive

Negative

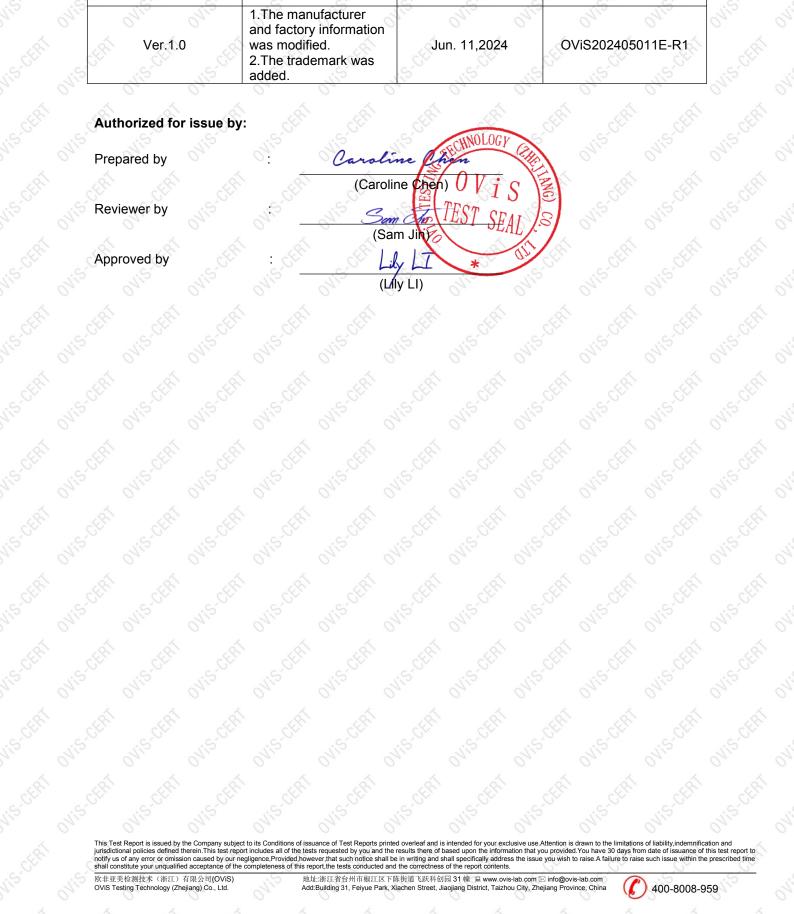
This Test Report is issued by the Company subject to its Conditions of issuance of Test Reports printed overleaf and is intended for your exclusive use. Attention is drawn to the limitations of liability,indemnification and jurisdictional policies defined therein. This test report includes all of the 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 this report, the tests conducted and the correctness of the report contents.





OVIS-CERT OVIS-C ONIS CERT ON

	OVIS-CERT	Page	2 of 25 R	eport No.:OViS202405011E	E-R1
		Revision	Record		5
0413	Version	Description	Date	Remark	0413
5	Ver.0.0	Original	May 17,2024	OViS202405011E	ć
1 .5	Ver.1.0	1.The manufacturer and factory information was modified. 2.The trademark was added.	Jun. 11,2024	OViS202405011E-R1	0415







2 Test Summary

Emission Part	ONIS ONIS ONIS			
ltem	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	EN IEC 61000-6- 4:2019	CISPR 16-2-1	N/A	Pass
Radiated Emissions (30MHz-1GHz)	EN IEC 61000-6- 2:2019	CISPR 16-2-3	N/A	Pass

mmunity Part Item	Standard	Method	Requirement	Result
Electrostatic Discharge	15-CERT MIS-CERT	EN 61000-4-2:2009	4kV Contact Discharge 8kV Air Discharge	Pass
Electrical Fast Transients/Burst at Power Port		EN 61000-4-4:2012	2kV 5/50ns Tr/Td 5 or 100kHz Repetition Frequency	Pass
Surge at Power Port		EN 61000-4-5:2014 +A1:2017	1.2/50µs Tr/Td 1kV Line to Line 2kV Line to Ground	Pass
Conducted Immunity at Power Port (150kHz-80MHz)	EN IEC 61000-6- 2:2019	EN 61000-4-6:2014	10Vrms (emf),80%,1kHz Amp. Mod.	Pass
Voltage Dips and Interruptions		EN 61000-4-11:2004 +A1:2017	0 % UT for 1per 40 % UT for 10per 70 % UT for 25per 0 % UT for 250per UT is Supply Voltage	Pass
Radiated Immunity (80MHz-3.6GHz)	IS-CERT ONIS-CERT	EN 61000-4-3:2006 +A1:2008+A2:20 10	10V/m, 80%, 1kHz Amp. Mod. 3V/m, 80%, 1kHz Amp. Mod.	Pass

Declaration of EUT Family Grouping:

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model WX 15-5 was tested since their differences were the model number and appearance.

Remark:

For detail,see relrbant information on General product information BS standards are identical with EN standards

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 once the correctness of the correctness of the report contents.





3 Coi	ntents	Page	
1	COVER PAGE	1.5	
2	TEST SUMMARY	2	
3	CONTENTS	र्स <u>३</u>	
4	GENERAL INFORMATION	4 15	
4.1	DETAILS OF E.U.T	4	
4.2	DESCRIPTION OF SUPPORT UNITS	्र ⁸ 4 ्र	
4.3	MEASUREMENT UNCERTAINTY	4 115	
4.4	TEST LOCATION	4	
4.5	DEVIATION FROM STANDARDS	5 ⁴¹ 4 5 ⁶¹	
4.6	ABNORMALITIES FROM STANDARD CONDITIONS	40111D	
4.7	MONITORING OF EUT FOR ALL IMMUNITY TEST	<u> </u>	
5	EQUIPMENT LIST	5 5	
6 8	EMISSION TEST RESULTS	8	
6.1	CONDUCTED EMISSIONS AT MAINS TERMINALS (150kHz-30MH8z)	8	
6.2	RADIATED EMISSIONS (30MHz-1GHz)	3 ⁵¹ 11	
7 0	IMMUNITY TEST RESULTS	14	
7.1	PERFORMANCE CRITERIA DESCRIPTION IN EN IEC 61000-6-2:2019	14	
7.2	ELECTROSTATIC DISCHARGE	15 .5	
7.3 0	ELECTRICAL FAST TRANSIENTS/BURST AT POWER PORT	16	
7.4	SURGE AT POWER PORT	17	
7.5	CONDUCTED IMMUNITY AT POWER PORT (150KHz-80MHz)	19	
7.6	VOLTAGE DIPS AND INTERRUPTIONS	20	
7.7	RADIATED IMMUNITY (80MHz-3.6GHz)	21	
8	PHOTOGRAPHS	22	
8.1 °	CONDUCTED EMISSIONS AT MAINS TERMINALS (150kHz-30MHz) TEST SETUP	22	
8.2	RADIATED EMISSIONS (30MHz-1GHz) TEST SETUP	22	
8.3	ELECTRICAL FAST TRANSIENTS/BURST AT POWER PORT TEST SETUP	23	
0.3 8.4	SURGE AT POWER PORT TEST SETUP	23	
8.5	CONDUCTED IMMUNITY AT POWER PORT (150kHz-80MHz) TEST SETUP	24	
8.6 📈	VOLTAGE DIPS AND INTERRUPTIONS TEST SETUP	24	
0.0	RADIATED IMMUNITY (80MHz-3.6GHz) TEST SETUP	24 25	
0.7		20	
8.7 8.8	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	2 DE (V	

Wis-CERT OVIS-CERT OVIS-CERT 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.

地址:浙江省台州市椒江区下陈街道飞跃科创园 31 幢 旦 www.ovis-lab.com ⊠ info@ovis-lab.com Add:Building 31, Feiyue Park, Xiachen Street, Jiaojiang District, Taizhou City, Zhejiang Province, China





4.1

4.2

4.3

44

4.5

4.6

Page 5 of 25

Report No.: OViS202405011E-R1

General Information Details of E.U.T. Power supply: 85W Test voltage: 220-240V,50Hz Description of Support Units The EUT has been tested as an independent unit Measurement Uncertainty No. Measurement Uncertainty Item 2.6dB (9kHz to 150kHz) 1 Conducted Emission at mains port using AMN 2.4dB (150kHz to 30MHz) 2 Conducted Emission at mains port using VP 1.8 dB (9kHz to 30MHz) Conducted Emission at telecommunication port using 3 4.2 dB (150kHz to 30MHz) AAN Radiated Power 2.3dB 4.5dB (30MHz-1GHz) 5 Radiated Emission 5.1dB (1GHz-3.6GHz) 6 Radiated Disturbance (disturbance current in a LLAS) 2.4dB (9kHz to 30MHz) Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. Test Location All tests were performed at: OViS Testing Technology (Zhejiang) Co., Ltd. Building 31, Feiyue Park, Xiachen Street, Jiaojiang District, Taizhou City, Zhejiang Province, China Tel: 400-8008-959 **Deviation from Standards** None Abnormalities from Standard Conditions None Monitoring of EUT for All Immunity Test Visual: Monitor the work status

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 mission caused by your negligence. Provided however, that such notice shall be in writing and shall specificatly 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.

地址:浙江省台州市椒江区下陈街道飞跃科创园 31 帷 旦 www.ovis-lab.com ⊠ info@ovis-lab.com Add:Building 31, Feiyue Park, Xiachen Street, Jiaojiang District, Taizhou City, Zhejiang Province, China



CERT

CERT

Equipment List

				0,	
OVIS-CERT		Page 6 of	25 N ¹⁵ N	Report No.:OVis	S202405011E-R1
			1 1		
5 Equip	ment List				
	oment List	ninals (150kHz-	30MHz)	S-SERI MS-SER	NIS-CERT
	oment List sions at Mains Tern Manufacturer	ninals (150kHz- Model No	30MHz)	Cal Date Cal	Due Date
Conducted Emiss	sions at Mains Tern			Cal Date Cal 2023-10-08	Due Date 2024-10-07
Conducted Emiss Equipment	sions at Mains Tern Manufacturer	Model No	Inventory No	X I	<u> </u>

×	- <u>-</u>		
Radia	tea Emiss	ions (30MI	IZ-1GHZ)

.5	Radiated Emissic	ons (30MHz-1GHz)				
110	Equipment	Manufacturer	Model No	Inventory No	Cal Date Cal	Due Date
	EMI test receiver	Rohde&Schwarz	ESR3	OViS-YQ125	2023-10-08	2024-10-07
0	CONTROLLER	Noyetec	XTJC	OViS-YQ128	2023-10-08	2024-10-07
ji?	ANTENNA MAST	SCHWARZBECK	VULB9163	OViS-YQ129	2023-10-08	2024-10-07
	Semi/Fully Anechoic	Noyetec	SR-500	OViS-YQ130	2023-10-08	2024-10-07
.S	Pre-Amplifier	Novetec	NYPA0930	OViS-YQ131	2023-10-08	2024-10-07

Electrostatic Disc	harge Test Setup	. A	(A.)	a la	
Equipment	Manufacturer	Model No	Inventory No	Cal Date Cal	Due Date
ESD generator	Everfine	EMS61000-2A	OViS-YQ132	2023-10-08	2024-10-07

Electrical Fast Tra	ansients/Burst at F	N R	B. B.	· R	
Equipment	Manufacturer	Model No	Inventory No	Cal Date Cal	Due Date
Burst generator	Everfine	EMS61000-4A	OViS-YQ133	2023-10-08	2024-10-07
Coupling clamp	Everfine	EFTC-2	OViS-YQ134	2023-10-08	2024-10-07

Surge at Power Po	ort S				
Equipment	Manufacturer	Model No	Inventory No	Cal Date Cal	Due Date
Lightning surge generator	Everfine	EMS61000-5A	OViS-YQ135	2023-10-08	2024-10-07

Equipment	Manufacturer	Model No	Inventory No	Cal Date Cal	Due Date
Signal generator	Rigol	DSG821	OViS-YQ136	2023-10-08	2024-10-07
Power Amplifier	Noyetec	NYPA 0123-100	OViS-YQ137	2023-10-08	2024-10-07
6dB Attenuator	Noyetec	ATT01	OViS-YQ138	2023-10-08	2024-10-07
Coupling and Decoupling Network (CDN)	SCHWARZBECK	CDN M2/M3	OViS-YQ139	2023-10-08	2024-10-07
RF Generator	Noyetec	SR100-6W	OViS-YQ140	2023-10-08	2024-10-07
Shielding Room	Everfine	SR-500	OViS-YQ127	2023-10-08	2024-10-07
Coupling and Decoupling Network (CDN)	SCHWARZBECK	CDN M4PE	OViS-YQ141	2023-10-08	2024-10-07
01,5 01		no one			
CERT CERT		and owned a child			
o ovis ovi		VIS-CERT OVIS-CER		S-CERT ONIS-CERT	OVIS-CERT
jurisdictional policies defined therein.Th notify us of any error or omission cause	pany subject to its Conditions of issuance his test report includes all of the tests req ed by our negligence, Provided, however,t tance of the completeness of this report.	uested by you and the results there hat such notice shall be in writing a	of based upon the information that ad shall specifically address the iss	you provided. You have 30 days fr	rom date of issuance of this





ONIS-CERT ONIS

St.	SEL					
OVis-	CERT		Page 7 of 2	5 115 11	Report No.:OViS	202405011E-R
2	2		rayer of Z	0, 0,		2024030112-0
Volta	ge Dips and	Interruptions	Ś. Ś.	A LAN	À. À.	
	quipment	Manufacturer	Model No	Inventory No	Cal Date Cal	Due Date
C	ree-phase ycle drop enerator	Everfine	EMS61000-11 CA	OViS-YQ142	2023-10-08	2024-10-07
Co	upling and ecoupling work (CDN)	Everfine	CDNI-3A	OViS-YQ143	2023-10-08	2024-10-07
	anual step	Everfine	SG-15KVA	OViS-YQ144	2023-10-08	2024-10-07

	ty (80MHz-3.6GHz)		0		~
Equipment	Manufacturer	Model No	Inventory No	Cal Date Cal	Due Date
Signal generator	Rigol	DSG836	OViS-YQ145	2023-10-08	2024-10-0
Antenna	SCHWARZBECK	VUSLP9111E	OViS-YQ146	2023-10-08	2024-10-0
Amplifier	Noyetec	NYPA0810-200	OViS-YQ147	2023-10-08	2024-10-0
Power meter sensor	PMM	EP601	OViS-YQ148	2023-10-08	2024-10-0
ElectroMagnetic Field Probe	Ceyear	87230	OViS-YQ149	2023-10-08	2024-10-0
Shielding Room	Everfine	SR-500	OViS-YQ127	2023-10-08	2024-10-0

	Shielding Room	Everfine	SR-500	OViS-YQ127	2023-10-08	2024-10-07
.S	is it	ST ST	15 15	1.5	5 .5	15
2	General used equ		07 07	0, 0,		0 0
	Equipment	Manufacturer	Model No	Inventory No	Cal Date Cal	Due Date
.5	Digital pressure meter	YIOU	DPH-103	OViS-YQ073	2023-10-08	2024-10-07
210	Temperature&hu midity recorder	Dongguan Jinghe Electronic Technology Co., Ltd	MC501	OViS-YQ095	2023-10-08	2024-10-07
12	Digital Multimeter	Fluke	319	OViS-YQ012	2023-10-08	2024-10-07
	UN ONSTUN ON		MIS-C. ONIS-C.	OVISION OVI		
			Wisco Ovisco	OVISIO OVI	ovision	
	SERT ONIS CERT ON	SCEPT OUSCEPT		N OWSCHAT OW		OVIS-CERT C
		S.CERT OVIS-CERT O		N OVISCERT OVI	SCHAL ONSCHAL	OVIS-CERT C
	SERI OVIS-CERI OV		WIS-CERT OWIS-CER			
					BOCK OVISION	ONIS-CU



6	Emission Test Results
6.1	Conducted Emissions at Mains Terminals (150kHz-30MHz)
A	Test Requirement: EN IEC 61000-6-4:2019
er st	Test Method: CISPR 16-2-1
ONIS	Frequency Range: 150kHz to 30MHz
ERI OVIS-OF	$\begin{array}{llllllllllllllllllllllllllllllllllll$
6.1.1	E.U.T. Operation
Wiss	Operating Environment:
	Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar
er sti	Test mode:Normal Working_keep EUT running continual .
6.1.2	Test Setup Diagram
ERI WISCE	
6.1.3	EUT AE 10cm LISN Gound Reference Plane
6.1.3	LISN LISN





CERT

CERT

CERT

CERT

CERT

CER'

<u>M19-06</u>

Mis-CE



11								
57	No.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB)	Measure- Ment (dBuV)	Limit (dBuV)	Margin (dB)	Detector
115	1	0.1580	52.39	10.81	63.20	79.00	-15.80	QP
	2	0.1580	40.95	10.81	51.76	66.00	-14.24	AVG
Ś	3	5.3140	34.19	11.13	45.32	60.00	-14.68	AVG
2412	4	5.4060	40.60	11.13	51.73	73.00	-21.27	QP of
	5	6.9420	34.19	11.16	45.35	60.00	-14.65	AVG
.50	6	6.9580	40.92	11.16	52.08	73.00	-20.92	QP
211	01	011	01 0	21 01	011	01	0%	01 0
JV15-0						.RT OVIS-CERT		
0415-0				WIS-CERT OV	S-CERT OVIS-CF		OVIS-CERT	
	à		S de	a l	A. A.	2 A	ja ja	A.
	0415-0 0415-0 0415-0 0415-0		NO. (MHz) 1 0.1580 2 0.1580 3 5.3140 4 5.4060 5 6.9420 6 6.9580	No. Frequency (MHz) Level (dBuV) 1 0.1580 52.39 2 0.1580 40.95 3 5.3140 34.19 4 5.4060 40.60 5 6.9420 34.19 6 6.9580 40.92	No. Frequency (MHz) Level (dBuV) Factor (dB) 1 0.1580 52.39 10.81 2 0.1580 40.95 10.81 3 5.3140 34.19 11.13 4 5.4060 40.60 11.13 5 6.9420 34.19 11.16	No. Frequency (MHz) Level (dBuV) Factor (dB) Ment (dBuV) 1 0.1580 52.39 10.81 63.20 2 0.1580 40.95 10.81 51.76 3 5.3140 34.19 11.13 45.32 4 5.4060 40.60 11.13 51.73 5 6.9420 34.19 11.16 45.35 6 6.9580 40.92 11.16 52.08	No. Frequency (MHz) Level (dBuV) Factor (dB) Ment (dBuV) Limit (dBuV) 1 0.1580 52.39 10.81 63.20 79.00 2 0.1580 40.95 10.81 51.76 66.00 3 5.3140 34.19 11.13 45.32 60.00 4 5.4060 40.60 11.13 51.73 73.00 5 6.9420 34.19 11.16 45.35 60.00 6 6.9580 40.92 11.16 52.08 73.00	No. Frequency (MHz) Level (dBuV) Factor (dB) Ment (dBuV) Limit (dBuV) Margin (dB) 1 0.1580 52.39 10.81 63.20 79.00 -15.80 2 0.1580 40.95 10.81 51.76 66.00 -14.24 3 5.3140 34.19 11.13 45.32 60.00 -14.68 4 5.4060 40.60 11.13 51.73 73.00 -21.27 5 6.9420 34.19 11.16 45.35 60.00 -14.65 6 6.9580 40.92 11.16 52.08 73.00 -20.92

Wi^{S-CERT}

Wis-CERT

Wis-CERT

OVIS-CERT OVIS-CERT

Wis-CERT OVIS-CERT Notes:Measure-Ment=Reading Level+Factor

oviscent outs-offent outs-offent sive : Rep Br ourschift ourschift ourschift ourschift ourschift ourscent ourscent ourscent ourse niter t 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 use 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.





CERT

CERT

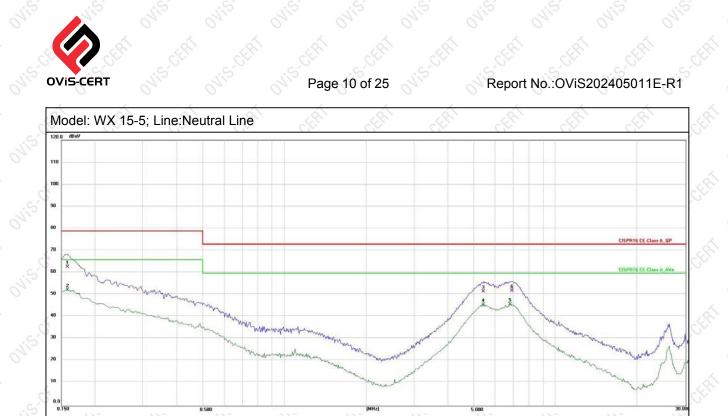
SERI

CERT

CERT

CERT

SERI



		2		d'					
		No.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB)	Measure- Ment (dBuV)	Limit (dBuV)	Margin (dB)	Detector
	0412	10	0.1580	52.08	10.74	62.82	79.00	-16.18	QP 🖑
		2	0.1580	41.75	10.74	52.49	66.00	-13.51	AVG
		3	5.4020	40.78	11.00	51.78	73.00	-21.22	QP
110	Oliz	40	5.4020	34.76	11.00	45.76	60.00	-14.24	AVG 🔊
		5	6.8020	34.95	11.01	45.96	60.00	-14.04	AVG
		6	6.9100	41.14	5 11.01	52.15	73.00	-20.85	S QP
	OVISIO	RA NO					AT OVIS-CERT		
		ERI OV			WiS CERT ON	IS-CERT OVIS-CE		OVIS-CERT	
		Notes:I	Measure-Ment=F	Reading Level+F	Factor	A.		, et	A

OV'

ON'

CERT

04'

CERT

041

CERT

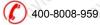
CERT

Wis-CERT OVIS-CERT OVIS-OFRI OVIS-OFRI OVISCERT OVIS-OFFI Notes:Measure-Ment=Reading Level+Factor

Oli

ovis cent Wiscort Outsocht sive ' ourschift ourschift ourscheft ourscheft ourscheft ourschift ourschift ourschift ourschift ourschift ourschift ourschift ouis-ceffi 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 use 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.

041





OVIS-CERT OVIS

	6.2	Radiated Emissions (30MHz-1GHz)
.5	9. <u>2</u> .S	Test Requirement: EN IEC 61000-6-4:2019
01,		Test Method: CISPR 16-2-3
E	\$` _\$	Frequency Range: 30MHz to 1GHz
1:5		Measurement Distance: 3m
O" O	AT WESCH	Limit: 30MHz-230MHz 50 dB(μV/m) quasi-peak 230MHz-1GHz 57 dB(μV/m) quasi-peak Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz
	6.2.1	E.U.T. Operation
S.	S. 50	Operating Environment:
0113	ON'S	Temperature: 22℃ Humidity: 51 % RH Atmospheric Pressure: 1020 mbar
	<u> </u>	Test mode:Normal Working_keep EUT running continual .
3	6.2.2	Test Setup Diagram
OVISO	AT OWIS OF	3m or 10m Gound Reference Plane Test Receiver Pre-Amplifier Controller
OVIS-O	OVISCL	
Ì.	6.2.3	Measurement Data
OVIS-CF	RT OVISCE	An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities
	AT OVISOF	AT OVIS-CERT OVI

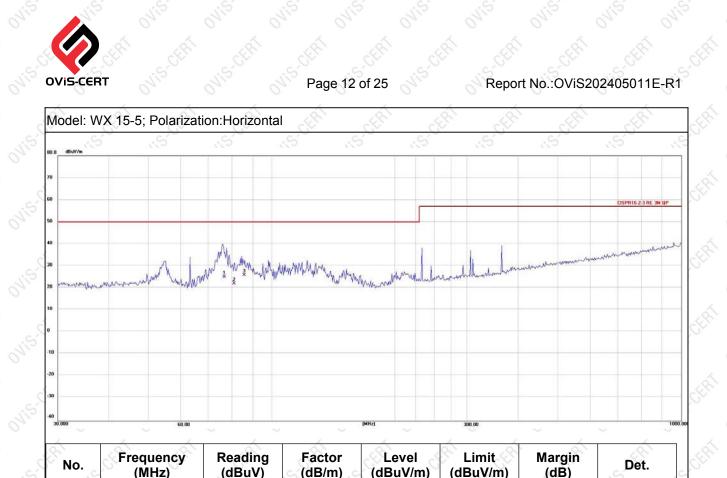


CERT

SER

CERT

outsoften outsoften outsoften outsoften



	12							
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
	10	76.5606	15.86	9.31	25.17	50.00	-24.83	QP O
	2	81.1613	12.62	9.45	22.07	50.00	-27.93	QP
insi ol	3	85.7541	15.63	10.37	26.00	50.00	-24.00	QP
	C. R.							
	is al	Sid Wisid	Wisi' d	NIST WIT		Wisio	Wisi	Wish W
	Notes:L	evel=Reading+Fa	ctor					· · ·

ovisi Notes:Level=Reading+Factor

ouscent ouscent ouscent Direction Direct ous of the ance of T reput ourschert he Conpr Brein-S Durscherten Dursch Bive usr yon th 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. 400-8008-959



Page 13 of 25

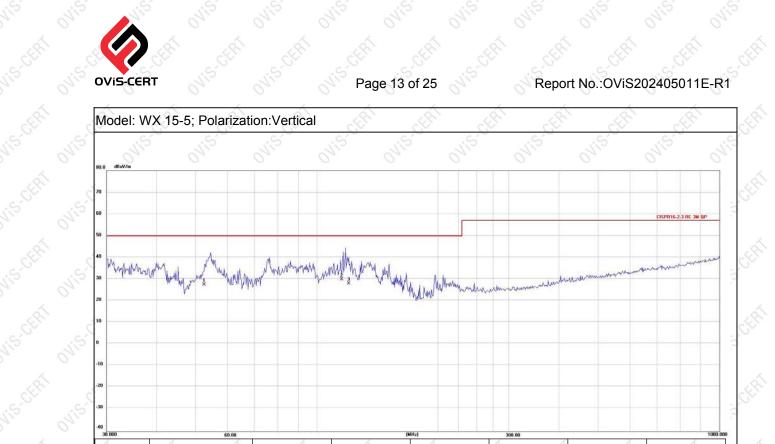
CERT

CERT

CERT

CERT

SICH



30.000		60.00		1	(Hz)	300.00		100
No) . S	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	011	52.4836	13.04	14.52	27.56	50.00	-22.44	QP (
2	~	115.6925	17.43	12.62	30.05	50.00	-19.95	QP
3		120.2001	15.94	12.14	28.08	50.00	-21.92	QP

SCER

SCER

, CER

SER

CER

ovisotern ovisotern ovisotern

CER

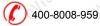
ouis-cent ouis-cent ouis-cent ou

Notes:Level=Reading+Factor

ousouth ousouth ousouth ousouth t Report i ny scheft he Comp ser I is Cor' ance of T are of T oviscontin oviscontin oviscontin oviscontin 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 use 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.



7	Immunity T	Test Results
5 7.1	Performanc	ce Criteria Description in EN IEC 61000-6-2:2019
5-0ERT 045	Criterion A	The apparatus shall continue to operate as intended during and after the test. N degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the apparatus if used as intended.
CERT OVIC	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. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed. No change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the apparatus if used as intended.
in the second se	Criterion C	Temporary loss of function is allowed, provided the function is self-recoverable can be restored by the operation of the controls.
5-CERT OV	S-CERT OVIS-CERT	ONIS-CERT ONIS-CERT ONIS-CERT ONIS-CERT ONIS-CERT ON
	S-CERT OVIS-CERT	OVIS-CERT
SCERT OVI		OVISOFAI OVI
		OVIS-CERT OVIS-C
CHRI OVI		OVIS-CERT OVIS-CERT OVIS-CERT OVIS-CERT OVIS-CERT OVIS-CERT OV
		OVIS-CERT OVIS-CERT OVIS-CERT OVIS-CERT OVIS-CERT OVIS-CERT OV
of the ovi		OVIS-CERT OVIS-C
		State State State State State State State





ERT		0, 0,	Page 15 of 25	0, 0,	Report No.:O	02024030111	E-R1
- AE	lectrostatic E	Discharge	CERI CERI	CER'	all a	A AN	
ST TO	est Requiren	nent: EN IEC 6	51000-6-2:2019	Visit Vis	N'S	J.S.	
T	est Method:	EN 61000-4-2:	2009	-0	- A - O -		0
P	erformance	Criterion: B	Str Str	SER	Star C	str str	
D	ischarge Imp	pedance: 330Ω	Ω/150pF	Win Win	N'IS	avis	J'1'
N	umber of Dis	scharge: Minim	num 10 times at ea	ach test point		à à	
D	ischarge Mo	de: Single Disc	charge	C.Str. C	Str. 20		C
D	ischarge Pe	riod: 1 second	minimum	ONE ONE	0413	Olis	011
্বন	est Setup Di	agram	AS AS	1 AN	A.	A A	
S	.5		<u>, , , , , , , , , , , , , , , , , , , </u>	.50	<u>, 6</u>	St	.0
is-cef		Elect	rostatic Discharge	3	K → ¥ 10cm VCP(0.5M*0.5h	a)	
		Elect	crostatic Discharge	EUT	K → X 10cm VCP(0.5M*0.5M 470K ohm 170K ohm 170K ohm 170K ohm	d) Kohm	, North
50.000 50.000 50.000 50.000	.U.T. Operat			EUT		f) Kohm	041
282	.U.T. Operat	tion		EUT		A) K ahm	0711
s C O	i en la compañía de	tion vironment:			470K shm	Kohn OVIC ERIT CEUERIT	OVI.
о Т(perating Enverse	tion vironment: 22°C Humi	Gound Pla	ne nospheric Press	470K shm	Kohn OVIC ERIT CEUERIT	0.4m
O Te Te	perating Enverse	tion vironment: 22°C Humi	Gound Pla dity: 51 % RH Atn	ne nospheric Press	470K shm	Kohn OVIC ERIT CEUERIT	031
0 Te Te	perating Enve emperature: est mode:No	tion vironment: 22°C Humi ormal Working_	Gound Pla dity: 51 % RH Atn	ne nospheric Press	470K shm	Kohn OVIC ERIT CEUERIT	011 011 011
0 Te Te 0	perating Env emperature: est mode:No est Results: bservations:	tion vironment: 22°C Humi ormal Working_	Gound Pla dity: 51 % RH Atn keep EUT running	ne nospheric Press	470K shm	Kohn OVIC ERIT CEUERIT	04
0 Te Te 0 1.	perating Env emperature: est mode:No est Results: bservations: All insulated	tion vironment: 22°C Humi ormal Working_ : Test Point: d enclosure an	Gound Pla dity: 51 % RH Atn keep EUT running	ne nospheric Press	470K shm	Kohn OVIC ERIT CEUERIT	O ^{NII}
0 Te Te 0 1. 2.	perating Env emperature: est mode:No est Results: bservations: All insulated	tion vironment: 22°C Humi ormal Working_ : Test Point: d enclosure an	Gound Pla dity: 51 % RH Atm keep EUT running d seams.	ne nospheric Press	470K shm	Kohn OVIC ERIT CEUERIT	ONIT ONIT
0 Te Te 0 1. 2. 3.	perating Env emperature: est mode:No est Results: bservations: All insulated All accessit All side	tion vironment: 22°C Humi ormal Working_ : Test Point: d enclosure an	Gound Pla dity: 51 % RH Atm keep EUT running d seams.	ne nospheric Press	ure: 1020 mb	Kohn OVIC ERIT CEUERIT	ions
0 Te Te 0 1. 2.	perating Env emperature: est mode:No est Results: bservations: All insulated All accessit All side ype	tion vironment: 22°C Humi ormal Working_ : Test Point: d enclosure an ole metal parts	Gound Pla dity: 51 % RH Atm keep EUT running d seams. of the enclosure.	nospheric Pressi g continual .	voint Re	Rahm	o de la consecuencia de la conse

WIS-CERT OUIS-CERT 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 once the correctness of the report contents.





Test Requirement: EN IEC 61000-6-2:2019 Test Method: EN 61000-4-4:2012 Performance Criterion: B Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Generator Generator Ground Reference Plane Operating Environment: Test mode:Normal Working_keep EUT running continual 7.3.2 E.U.T. Operation Operating Environment: Test mode:Normal Working_keep EUT running continual Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observatior	Test Requirement: EN IEC 61000-6-2:2019 Test Method: EN 61000-4-4:2012 Performance Criterion: B Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Generator Generator Ground Reference Plane Test Ur. T. Operation Operating Environment: Test Ur. T. Operation Operating Environment: Test mode:Normal Working_keep EUT running continual Test Line Level (kV) Polarity CDN A A covver port Period: 2 CDN A CDN Result:	Test Requirement: EN IEC 61000-6-2:2019 Test Method: EN 61000-4-4:2012 Performance Criterion: B Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram	Test Requirement: EN IEC 61000-6-2:2019 Test Method: EN 61000-4-4:2012 Performance Criterion: B Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Ground Reference Plane Ground Reference Plane 7.3.2 E.U.T. Operation Operating Environment: Test mode:Normal Working_keep EUT running continual 7.3.3 Test Line Level (kV) Polarity CDN Ac power port 2 - CDN A colspan="2">CDN	Test Requirement: EN IEC 61000-6-2:2019 Test Method: EN 61000-4-4:2012 Performance Criterion: B Repetition Frequency: SkHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: SkHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: SkHz Image: SkHz Generator Image: SkHz Image: SkHz <th>Test Requirement: EN IEC 61000-6-2:2019 Test Method: EN 61000-4-4:2012 Performance Criterion: B Repetition Frequency: SkHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram</th> <th>7.3</th> <th>Electrical</th> <th>East Transionts/Bur</th> <th>st at Power Port</th> <th>A A</th> <th></th> <th>i di</th>	Test Requirement: EN IEC 61000-6-2:2019 Test Method: EN 61000-4-4:2012 Performance Criterion: B Repetition Frequency: SkHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram	7.3	Electrical	East Transionts/Bur	st at Power Port	A A		i di	
Test Method: EN 61000-4-4:2012 Performance Criterion: B Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram (Gound Reference Plane Ground Reference Plane (CDP) Call (kV) 7.3.2 E.U.T. Operation Operating Environment: Test mode: Normal Working_keep EUT running continual 7.3.3 Test Results: CDN/Clamp Result / Observation A colspan="2">CDN A	Test Method: EN 61000-4-4:2012 Performance Criterion: B Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Start Setup Diagram Image: Setup Diagram	Test Method: EN 61000-4-4:2012 Performance Criterion: B Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Start Setup Diagram Image: Setup Diagram	Test Method: EN 61000-4-4:2012 Performance Criterion: B Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Start Setup Diagram Image: Setup Diagram	Test Method: EN 61000-4-4:2012 Performance Criterion: B Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram	Test Method: EN 61000-4-4:2012 Performance Criterion: B Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram	<u>(7.3)</u>	Le la		UT UT	<u></u>	<u> </u>		
Performance Criterion: B Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram	Performance Criterion: B Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram I	Performance Criterion: B Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram I	Performance Criterion: B Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: SkHz Image: SkHz <t< td=""><td>Performance Criterion: B Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram I</td><td>Performance Criterion: B Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setupe Diagram</td><td></td><td>0</td><td>0 0</td><td>0 0</td><td>011</td><td>011</td><td>- 0¹/, 0</td></t<>	Performance Criterion: B Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram I	Performance Criterion: B Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setupe Diagram		0	0 0	0 0	011	011	- 0 ¹ /, 0	
Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Set Setup Diagram	Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram	Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram	Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram	Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram	Repetition Frequency: 5kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram <td colsp<="" td=""><td></td><td></td><td></td><td></td><td>di di</td><td>à d</td><td></td></td>	<td></td> <td></td> <td></td> <td></td> <td>di di</td> <td>à d</td> <td></td>					di di	à d	
Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Support Colspan Image: Support Colspan Image: Support Colspan="2">Image: Support Colspan="2" Image: Support Colspan="2"	Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Superior Supe	Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Construct of the setup of the set	Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Construct of the setup of the set	Burst Period: 300ms Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram <td< td=""><td>Burst Period: 300ms. Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Construct Reference Plane Image: Construct Reference Plane <td></td><td></td><td></td><td>William and</td><td>5</td><td>N'S'</td><td>NIS.</td></td></td<>	Burst Period: 300ms. Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Construct Reference Plane Image: Construct Reference Plane <td></td> <td></td> <td></td> <td>William and</td> <td>5</td> <td>N'S'</td> <td>NIS.</td>				William and	5	N'S'	NIS.	
Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Set Diagram	Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Supple Supp	Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram	Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Dima	Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram </td <td>Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram</td> <td>× 0°</td> <td>0</td> <td></td> <td></td> <td>× 0*</td> <td> </td> <td>0 0</td>	Test Duration: 2 minute per level & polarity 7.3.1 Test Setup Diagram Image: Setup Diagram	× 0°	0			× 0*	 	0 0	
7.3.1 Test Setup Diagram 7.3.1 Test Setup Diagram Image: Setup Diagram Image: Setup Diagram Image: Set Diagram Image: Setup Diagram Image: Set Diagram Image: Set Diagram	7.3.1 Test Setup Diagram Image: Setup Diagram <t< td=""><td>7.3.1 Test Setup Diagram Image: Setup Diagram <t< td=""><td>7.3.1 Test Setup Diagram Image: Setup Diagram <t< td=""><td>7.3.1 Test Setup Diagram Image: Setup Diagram <t< td=""><td>7.3.1 Test Setup Diagram 7.3.1 Test Setup Diagram Image: Courd Reference Plane Image: Courd Reference Plane 7.3.2 E.U.T. Operation Operating Environment: Image: Courd Reference Plane Test mode: Normal Working_keep EUT running continual Test Results: Test Line Level (kV) Polarity CDN/Clamp Results: CDN Results: CDN Results: CDN</td><td></td><td></td><td></td><td>vel & polarity</td><td>Star Star</td><td></td><td>in chain</td></t<></td></t<></td></t<></td></t<>	7.3.1 Test Setup Diagram Image: Setup Diagram <t< td=""><td>7.3.1 Test Setup Diagram Image: Setup Diagram <t< td=""><td>7.3.1 Test Setup Diagram Image: Setup Diagram <t< td=""><td>7.3.1 Test Setup Diagram 7.3.1 Test Setup Diagram Image: Courd Reference Plane Image: Courd Reference Plane 7.3.2 E.U.T. Operation Operating Environment: Image: Courd Reference Plane Test mode: Normal Working_keep EUT running continual Test Results: Test Line Level (kV) Polarity CDN/Clamp Results: CDN Results: CDN Results: CDN</td><td></td><td></td><td></td><td>vel & polarity</td><td>Star Star</td><td></td><td>in chain</td></t<></td></t<></td></t<>	7.3.1 Test Setup Diagram Image: Setup Diagram <t< td=""><td>7.3.1 Test Setup Diagram Image: Setup Diagram <t< td=""><td>7.3.1 Test Setup Diagram 7.3.1 Test Setup Diagram Image: Courd Reference Plane Image: Courd Reference Plane 7.3.2 E.U.T. Operation Operating Environment: Image: Courd Reference Plane Test mode: Normal Working_keep EUT running continual Test Results: Test Line Level (kV) Polarity CDN/Clamp Results: CDN Results: CDN Results: CDN</td><td></td><td></td><td></td><td>vel & polarity</td><td>Star Star</td><td></td><td>in chain</td></t<></td></t<>	7.3.1 Test Setup Diagram Image: Setup Diagram <t< td=""><td>7.3.1 Test Setup Diagram 7.3.1 Test Setup Diagram Image: Courd Reference Plane Image: Courd Reference Plane 7.3.2 E.U.T. Operation Operating Environment: Image: Courd Reference Plane Test mode: Normal Working_keep EUT running continual Test Results: Test Line Level (kV) Polarity CDN/Clamp Results: CDN Results: CDN Results: CDN</td><td></td><td></td><td></td><td>vel & polarity</td><td>Star Star</td><td></td><td>in chain</td></t<>	7.3.1 Test Setup Diagram 7.3.1 Test Setup Diagram Image: Courd Reference Plane Image: Courd Reference Plane 7.3.2 E.U.T. Operation Operating Environment: Image: Courd Reference Plane Test mode: Normal Working_keep EUT running continual Test Results: Test Line Level (kV) Polarity CDN/Clamp Results: CDN Results: CDN Results: CDN				vel & polarity	Star Star		in chain	
7.3.2 E.U.T. Operation Ground Reference Plane Operating Environment: Test mode:Normal Working_keep EUT running continual 7.3.3 Test Line Level (kV) Polarity CDN/Clamp Result / Observation	7.3.2 E.U.T. Operation Ground Reference Plane Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Results: Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation A c power port 2 + CDN A Results:	7.3.2 E.U.T. Operation Ground Reference Plane Operating Environment: Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Results: Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation A colspan="2">CDN A colspan="2">CON Result / Observation A colspan="2">CON CON A colspan="2">CON	7.3.2 E.U.T. Operation Ground Reference Plane Operating Environment: Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Results: Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation Test Line Level (kV) Polarity CDN/Clamp Result / Observation A colspan="2">CON A Results:	7.3.2 E.U.T. Operation Ground Reference Plane 7.3.2 E.U.T. Operation Operating Environment: Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Results: Test Union AC power port 2 - CDN AC power port 2 - CDN Ac power port 2 - CDN Results:	7.3.2 E.U.T. Operation Ground Reference Plane 7.3.2 E.U.T. Operation Operating Environment: Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results:	7.3.1	57	Si Si		5 01/5	0412	ovis o	
FFT/Burst EUT AE Insulating Support(0.1m) Ground Reference Plane Ground Reference Plane Ground Reference Plane 7.3.2 E.U.T. Operation Ground Reference Plane 7.3.2 E.U.T. Operation Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observatior AC power port 2 + CDN A	Ground Reference Plane EUT AE Insulating Support(0.1m) Generator Ground Reference Plane Ground Reference Plane 7.3.2 E.U.T. Operation Goperating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Result / Observation AC power port 2 + AC power port 2 - AC power port 2 - Results: CDN A	Ground Reference Plane Generator Ground Reference Plane 7.3.2 E.U.T. Operation Ground Reference Plane Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + AC power port 2 - Results: - CDN	Ground Reference Plane Generator EUT AE Insulating Support(0.1m) Ground Reference Plane Ground Reference Plane Ground Reference Plane 7.3.2 E.U.T. Operation Goperating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual Test Results: Test Result / Observation 7.3.3 Test Results: Test Normal Vorking_keep EUT running continual 7.3.3 Test Results: CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	Ground Reference Plane EUT AE Insulating Support(0.1m) Ground Reference Plane Ground Reference Plane Ground Reference Plane 7.3.2 E.U.T. Operation Goperating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual Test Results: Test Result / Observation 7.3.3 Test Results: Test Normal Vorking_keep EUT running continual 7.3.3 Test Results: CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	EFT/Burst Generator Ground Reference Plane Ground Reference Plane Operation Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: Executes: - CDN A	effi ovis-of	al sisof	AL USCHILL	SERIE ANS OFFICE AND	S-OFFIL JIS-OF	11		
Ground Reference Plane 7.3.2 E.U.T. Operation Operating Environment: Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2	Ground Reference Plane Ground Reference Plane 7.3.2 E.U.T. Operation Operating Environment:	Ground Reference Plane Ground Reference Plane 7.3.2 E.U.T. Operation Operating Environment:	Ground Reference Plane Ground Reference Plane 7.3.2 E.U.T. Operation Operating Environment:	Ground Reference Plane Ground Reference Plane 7.3.2 E.U.T. Operation Operating Environment:	Ground Reference Plane Ground Reference Plane 7.3.2 E.U.T. Operation Operating Environment: Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: Esults: - CDN A		Grour		Burst	EUT		sulating Support(0.1m)	
7.3.2 E.U.T. Operation 7.3.2 E.U.T. Operation Operating Environment:	7.3.2 E.U.T. Operation Operating Environment:	7.3.2 E.U.T. Operation Operating Environment:	7.3.2 E.U.T. Operation Operating Environment:	7.3.2 E.U.T. Operation Operating Environment:	7.3.2 E.U.T. Operation Operating Environment:			\ Gener					
Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp AC power port 2	Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observatior AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observatior AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: CDN A A				Owner of D. /				
Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2	Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observatior AC power port 2 + CDN A AC power port 2 - CDN A Results:	Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp AC power port 2 4 CDN AC power port 2 - CDN A Results:	Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: CDN A A	OVISIO		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Ground Refere		x ~ ^	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2	Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	RAT OVISIO	R. Ct	AT SURA	Ground Refere		A SHR	Station State	
Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A	Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	Test mode:Normal Working_keep EUT running continual 7.3.3 Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	7.3.2	E.U.T. Op	peration	Ground Refere		AT OVISCHE	I WESCHART C	
Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A	Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	Test Results: Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	7.3.2	<u> </u>		Ground Refere		AT OFF	NI CERT	
Test Line Level (kV) Polarity CDN/Clamp Result / Observation AC power port 2 + CDN A	Test LineLevel (kV)PolarityCDN/ClampResult / ObservationAC power port2+CDNAAC power port2-CDNAResults:	Test LineLevel (kV)PolarityCDN/ClampResult / ObservationAC power port2+CDNAAC power port2-CDNAResults:	Test LineLevel (kV)PolarityCDN/ClampResult / ObservationAC power port2+CDNAAC power port2-CDNAResults:	Test LineLevel (kV)PolarityCDN/ClampResult / ObservationAC power port2+CDNAAC power port2-CDNAResults:	Test LineLevel (kV)PolarityCDN/ClampResult / ObservationAC power port2+CDNAAC power port2-CDNAResults:	7.3.2 10 61 7.3.2 10	Operating Temperat	g Environment: cure: 22°C Humidi	ity: 51 % RH Atmosp	pheric Pressure	1020 mbar	NI CERT	
AC power port 2 + CDN A	AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	AC power port2+CDNAAC power port2-CDNAResults:	AC power port 2 + CDN A AC power port 2 - CDN A Results: - CDN A	CRI OVIS-CF	Operating Temperat Test mod	g Environment: ture: 22°C Humidi e:Normal Working_k	ity: 51 % RH Atmosp	pheric Pressure	1020 mbar	ovisothi	
	AC power port 2 - CDN A Results:	AC power port 2 - CDN A Results:	AC power port 2 - CDN A Results:	AC power port 2 - CDN A Results:	AC power port 2 - CDN A Results:	7.3.3	Operating Temperat Test mod Test Resu	g Environment: ture: 22°C Humidi e:Normal Working_k ults:	ity: 51 % RH Atmosp eep EUT running cc	pheric Pressure ontinual	ONTO CR	OVIS C	
						7.3.3 Test I	Operating Temperat Test mod Test Resu	g Environment: ture: 22°C Humidi e:Normal Working_k ults: Level (kV)	ity: 51 % RH Atmosp eep EUT running co Polarity	pheric Pressure ontinual CDN/Clan	ONTO CR	Ilt / Observation	
EFFI OVIS OVIS OVIS OVIS OVIS OVIS OVIS OVI	AFRI OVIS-CERT O	outsolt outsol	One o		AT ONSOLATIONS ON ONSOLATIONS OF THE ONSOLATIONS OF ONSOLATIONS OF THE ONSOLATION ON THE ON T	7.3.3 Test I AC pow AC pow Results:	Operating Temperat Test mod Test Resu Line er port er port	g Environment: cure: 22°C Humidi e:Normal Working_k ults: Level (kV) 2 2 2	ity: 51 % RH Atmosp eep EUT running co Polarity + -	pheric Pressure ontinual CDN/Clan CDN CDN	ONTO CR	Ilt / Observation A	
ONES ONES ONES ONES ONES ONES ONES ONES	EAT ONIS CEAT ON	ET ONESCE O			AT OUS CERT OF	7.3.3 Test I AC pow AC pow Results:	Operating Temperat Test mod Test Resu Line er port er port	g Environment: cure: 22°C Humidi e:Normal Working_k ults: Level (kV) 2 2 2	ity: 51 % RH Atmosp eep EUT running co Polarity + -	pheric Pressure ontinual CDN/Clan CDN CDN	ONTO CR	Ilt / Observation A	
EFT OVISCOPTI OV	ART ONIS-CERT ON	AT OUTS OF OUT	ATT ONLY ONLY ONLY ONLY ONLY ONLY ONLY ONLY		AL WESCHAL WESCHAL WESCHAL WESCHAL WESCHAL WESCHAL WESCHAL	7.3.3 Test I AC pow AC pow Results:	Operating Temperat Test mod Test Resu Line er port er port	g Environment: cure: 22°C Humidi e:Normal Working_k ults: Level (kV) 2 2 2	ity: 51 % RH Atmosp eep EUT running co Polarity + -	pheric Pressure ontinual CDN/Clan CDN CDN	ONTO CR	Ilt / Observation A	
EFT OUTS CEFT OUTS CEFT.	ERI OUIS-CERI OU	AT ONSOLT	EFT OVICE OV	ERI OVIS-CERI OV	Wish wish wish wish wish wish wish wish	7.3.3 Test I AC pow AC pow Results:	Operating Temperat Test mod Test Resu Line er port er port	g Environment: cure: 22°C Humidi e:Normal Working_k ults: Level (kV) 2 2 2	ity: 51 % RH Atmosp eep EUT running co Polarity + -	pheric Pressure ontinual CDN/Clan CDN CDN	ONTO CR	Ilt / Observation A	
THE OWSCIEFT	EFFT OUTS OFFT OUTS OFFT.	THE ONE-OFFICE ONE-OFF	EFT OUTS CHAT OUTS OUTS OUTS OUTS OUTS OUTS OUTS OUT	ERI OVIS-CERI OV		7.3.3 Test I AC pow AC pow Results:	Operating Temperat Test mod Test Resu Line er port er port	g Environment: cure: 22°C Humidi e:Normal Working_k ults: Level (kV) 2 2 2	ity: 51 % RH Atmosp eep EUT running co Polarity + -	pheric Pressure ontinual CDN/Clan CDN CDN	ONTO CR	Ilt / Observation A	



VIS-CERT			Page 17 of 25	C Report N	o.:OViS202405011E-R1
.4	N Denne at F	O" O"			á á
.4	Surge at F		Sti Sti		
0413	0	irement: EN IEC 61	6 6	e dire di	Mis and an
5	Test Metho	od: EN 61000-4-5:20	014 +A1:2017		
, c	Performan	ce Criterion: B	Str. Str.	Str. Str.	Ser. Ser.
OVIS	Interval: 60	Os between each su	rge 🔏 🕺	i ovin o	
4	Test level:	±2 kV(AC power por ±1 kV (AC power po		den den	alt alt
	No. of surg	ges: 5 positive, 5 ne	gative at 0 $^\circ$, 90 $^\circ$,1	80°, 270°	
.4.1	Test Setup	Diagram	0. 0.	0. 0	0, 0, 0,
5 5	81 18	N 181	18, 18,	18, 18,	18° 18°
	Ground	Reference Plane EFT/Bu Genera		EUT AE	Insulating Support(0.1m)
	8		Ground Referen	ce Plane	
.4.2	E.U.T. Opt	eration	Ground Referen	ice Plane	VIET OVIET OVIE
.4.2	E.U.T. Ope	eration Environment:	Ground Referen	ice Plane	NIST ONIST ON
.4.2	Operating	Environment:	ONDER ON	on on other of the second s	0 mbar
.4.2	Operating Temperatu	Environment: ıre: 22°C Humidi	ty: 51 % RH Atmosp	heric Pressure: 102	0 mbar
Constant	Operating Temperatu Test mode	Environment: ure: 22°C Humidi e:Normal Working_ke	ONDER ON	heric Pressure: 102	0 mbar
4.3	Operating Temperatu Test mode Test Resu	Environment: ure: 22°C Humidi e:Normal Working_ko Its:	ty: 51 % RH Atmosp eep EUT running co	oheric Pressure: 102 ntinual .	1
Constant of the second	Operating Temperatu Test mode Test Resu Line	Environment: ure: 22°C Humidi e:Normal Working_ke	ty: 51 % RH Atmosp	heric Pressure: 102	0 mbar Result / Observations
4.3 Test I	Operating Temperatu Test mode Test Resu Line	Environment: ure: 22°C Humidi e:Normal Working_ko Its:	ty: 51 % RH Atmosp eep EUT running co Polarity	oheric Pressure: 102 ntinual . Phase (deg)	Result / Observations
4.3 Test I L-1 L-1	Operating Temperatu Test mode Test Resu Line N N	Environment: ure: 22°C Humidi e:Normal Working_ko Its: Level (kV) 1	ty: 51 % RH Atmosp eep EUT running co Polarity	oheric Pressure: 102 ntinual . Phase (deg) 0° 0° 90°	Result / Observations A A A A
4.3 Test I L-1 L-1 L-1	Operating Temperatu Test mode Test Resu Line N N N	Environment: ure: 22°C Humidi ::Normal Working_ko Its: <u>Level (kV)</u> 1 1 1 1 1 1	ty: 51 % RH Atmosp eep EUT running co Polarity + - + -	oheric Pressure: 102 ntinual . Phase (deg) 0° 0° 90° 90°	Result / Observations A A A A A
.4.3 Test I L-1 L-1 L-1 L-1 L-1	Operating Temperatu Test mode Test Resu Line N N N N	Environment: ure: 22°C Humidi ::Normal Working_ko Its: Level (kV) 1 1 1 1 1 1 1 1	ty: 51 % RH Atmosp eep EUT running co Polarity + - + - + +	oheric Pressure: 102 ntinual . Phase (deg) 0° 0° 90° 90° 180°	Result / Observations A A A A A A
4.3 Test 1 L-1 L-1 L-1 L-1 L-1	Operating Temperatu Test mode Test Resu Line N N N N N N N N N N N N N N N N N N N	Environment: ure: 22°C Humidi ::Normal Working_k Its: Level (kV) 1 1 1 1 1 1 1 1 1 1	ty: 51 % RH Atmosp eep EUT running co Polarity + - + - + + -	oheric Pressure: 102 ntinual . Phase (deg) 0° 0° 90° 90° 90° 180°	Result / Observations A A A A A A A A
4.3 Test 1 L-1 L-1 L-1 L-1 L-1 L-1	Operating Temperatu Test mode Test Resu Line N N N N N N N N N N N N N N N N N N N	Environment: ure: 22°C Humidi ::Normal Working_ka Its: Level (kV) 1 1 1 1 1 1 1 1 1 1 1 1 1	ty: 51 % RH Atmosp eep EUT running co Polarity + - + - + +	oheric Pressure: 102 ntinual . Phase (deg) 0° 0° 90° 90° 180° 180° 180° 270°	Result / Observations A A A A A A A A A A
4.3 Test I L-1 L-1 L-1 L-1 L-1 L-1 L-1	Operating Temperatu Test mode Test Resu Line N N N N N N N N N N N N N N N N N N N	Environment: ure: 22°C Humidi e:Normal Working_ka Its: Level (kV) 1 1 1 1 1 1 1 1 1 1 1 1 1	ty: 51 % RH Atmosp eep EUT running co Polarity + - + - + - + - + - + - + -	oheric Pressure: 102 ntinual . Phase (deg) 0° 0° 90° 90° 180° 180° 180° 270° 270°	Result / Observations A A A A A A A A A A
4.3 Test I L-1 L-1 L-1 L-1 L-1 L-1 L-1 L-1	Operating Temperatu Test mode Test Resu Line N N N N N N N N N N N N N N N N N N N	Environment: ure: 22°C Humidi ::Normal Working_ka Its: Level (kV) 1 1 1 1 1 1 1 1 1 1 1 2	ty: 51 % RH Atmosp eep EUT running co Polarity + - + - + + -	oheric Pressure: 102 ntinual . Phase (deg) 0° 0° 90° 90° 180° 180° 180° 270° 270° 0°	Result / Observations A A A A A A A A A A A
1.3 Test I L-1 L-1 L-1 L-1 L-1 L-1 L-1 L-P L-P L-P	Operating Temperatu Test mode Test Resu Line N N N N N N N N N N N N N N N N PE	Environment: ure: 22°C Humidi :Normal Working_ka Its: Level (kV) 1 1 1 1 1 1 1 1 1 2 2 2	ty: 51 % RH Atmosp eep EUT running co Polarity + - + - + - + - + - + - + - + - + - +	oheric Pressure: 102 ntinual . Phase (deg) 0° 0° 90° 90° 180° 180° 180° 270° 270° 0° 0° 0°	Result / Observations A A A A A A A A A A A A A A A A
4.3 Test I L-1 L-1 L-1 L-1 L-1 L-1 L-1 L-P L-P L-P	Operating Temperatu Test mode Test Resu Line N N N N N N N N N N PE PE PE	Environment: ure: 22°C Humidi ::Normal Working_ka Its: Level (kV) 1 1 1 1 1 1 1 1 2 2 2	ty: 51 % RH Atmosp eep EUT running co Polarity + - + - + - + - + - + - + -	oheric Pressure: 102 ntinual . Phase (deg) 0° 0° 0° 90° 90° 180° 180° 180° 270° 270° 270° 0° 0° 0°	Result / Observations A A A A A A A A A A A A A A A A A A
4.3 Test I L-1 L-1 L-1 L-1 L-1 L-1 L-1 L-P L-P L-P L-P L-P L-P	Operating Temperature Test mode Test Resure Line N N N N N N N N N N PE PE PE PE PE PE PE PE	Environment: ure: 22°C Humidi ::Normal Working_ka Its: Level (kV) 1 1 1 1 1 1 1 2 2 2 2 2	ty: 51 % RH Atmosp eep EUT running co Polarity + - + - + - + - + - + - + - + - + - +	oheric Pressure: 102 ntinual . Phase (deg) 0° 0° 90° 90° 180° 180° 180° 270° 270° 0° 0° 0° 0° 90° 90° 180° 0° 0° 0° 0° 180° 180° 180° 180° 180° 0° 0° 0° 0° 0° 0° 0° 0° 0°	Result / Observations A A A A A A A A A A A A A A A A A A A
4.3 Test I L-1 L-1 L-1 L-1 L-1 L-1 L-1 L-1	Operating Temperature Test mode Test Resure Line N N N N N N N N N N PE PE PE PE PE PE PE PE	Environment: ure: 22°C Humidi :Normal Working_ka Its: Level (kV) 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2	ty: 51 % RH Atmosp eep EUT running co Polarity + - + - + - + - + - + - + - + - + - +	oheric Pressure: 102 ntinual . Phase (deg) 0° 0° 90° 90° 180° 180° 270° 270° 270° 0° 0° 0° 90° 180°	Result / Observations A A A A A A A A A A A A A A A A A A A
.4.3 Test I L-P L-P L-P L-P L-P L-P L-P L-P L-P L-P	Operating Temperatu Test mode Test Resu Line N N N N N N N N PE	Environment: ure: 22°C Humidi :Normal Working_ka Its: Level (kV) 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2	ty: 51 % RH Atmosp eep EUT running co Polarity + - + - + - + - + - + - + - + - + - +	oheric Pressure: 102 ntinual . Phase (deg) 0° 0° 90° 90° 180° 180° 270° 270° 270° 0° 0° 90° 180° 180° 180° 180°	Result / Observations A A A A A A A A A A A A A A A A A A A
.4.3 Test I L-I L-I L-I L-I L-I L-P L-P L-P L-P L-P L-P L-P L-P	Operating Temperature Test mode Test Resure Line N N N N N N N N N N PE PE <tr< td=""><td>Environment: ure: 22°C Humidi ::Normal Working_ke Its: Level (kV) 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2</td><td>ty: 51 % RH Atmosp eep EUT running co Polarity + - + - + - + - + - + - + - + - + - +</td><td>oheric Pressure: 102 ntinual . Phase (deg) 0° 0° 90° 90° 180° 180° 180° 270° 270° 0° 0° 0° 90° 180° 180° 180° 180° 270°</td><td>Result / Observations A A A A A A A A A A A A A A A A A A A</td></tr<>	Environment: ure: 22°C Humidi ::Normal Working_ke Its: Level (kV) 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	ty: 51 % RH Atmosp eep EUT running co Polarity + - + - + - + - + - + - + - + - + - +	oheric Pressure: 102 ntinual . Phase (deg) 0° 0° 90° 90° 180° 180° 180° 270° 270° 0° 0° 0° 90° 180° 180° 180° 180° 270°	Result / Observations A A A A A A A A A A A A A A A A A A A
L-1 L-1 L-1 L-1 L-1 L-1 L-1 L-1 L-P L-P L-P L-P L-P L-P L-P	Operating Temperature Test mode Test Resure Line N N N N N N N PE	Environment: ure: 22°C Humidi ::Normal Working_ka Its: Level (kV) 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	ty: 51 % RH Atmosp eep EUT running co Polarity + - + - + - + - + - + - + - + - + - +	oheric Pressure: 102 ntinual . Phase (deg) 0° 0° 90° 90° 180° 180° 270° 270° 270° 0° 0° 90° 180° 180° 180° 180°	Result / Observations A A A A A A A A A A A A A A A A A A A
V.4.3 Test I L-I L-I L-I L-I L-I L-P L-P L-P L-P L-P L-P L-P L-P	Operating Temperature Test mode Test Resure Line N N N N N N N N N N PE	Environment: ure: 22°C Humidi ::Normal Working_ke Its: Level (kV) 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	ty: 51 % RH Atmosp eep EUT running co Polarity + - + - + - + - + - + - + - + - + - +	oheric Pressure: 102 ntinual . Phase (deg) 0° 0° 90° 90° 180° 180° 270° 270° 0° 0° 0° 90° 180° 180° 180° 180° 270° 270° 270° 270° 270°	Result / Observations A

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.

欧非亚美检测技术(浙江)有限公司(OViS) OViS Testing Technology (Zhejiang) Co., Ltd.

地批浙江省台州市椒江区下陈街道飞跃科创园 31 帷 呈 www.ovis-lab.com ⊠ info@ovis-lab.com Add:Building 31, Feiyue Park, Xiachen Street, Jiaojiang District, Taizhou City, Zhejiang Province, China



OVIS-CERT OVIS OFFIT OWS Page 18 of 25

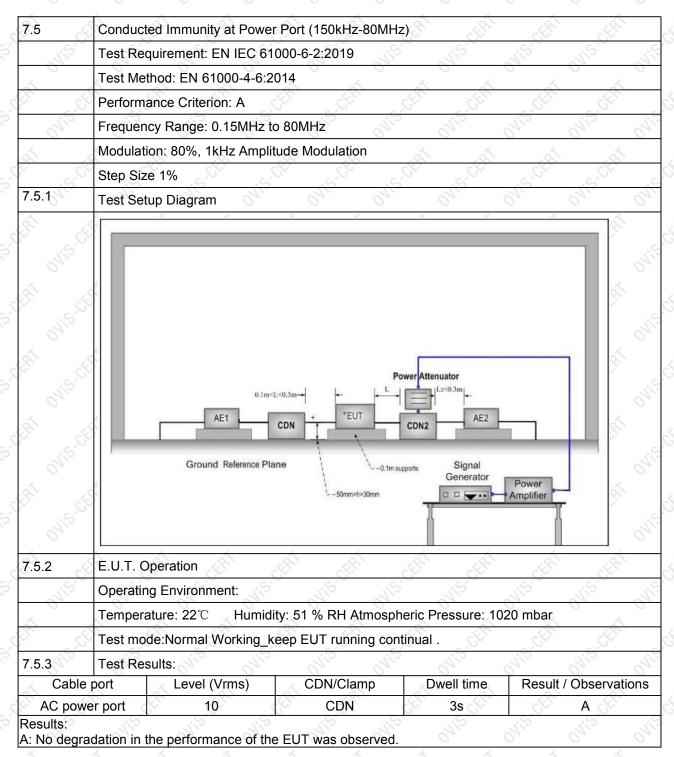
OVIS-CERT OVIS

(A)	N-PE	(Å)	2	20	11 <u>-</u>	J.S.	90°	St.Pr	A	
Nis	N-PE N-PE	N'S	2	21.6	NIS-	N'S'	180°	and	A	15
	N-PE	<u> </u>	2		<u> </u>		270°		A	0
- Po	N-PE	Ser.	2	S.	541		270°	SEL	A	5
	sults: No degradat	tion in the p	erformanc	ce of the E	EUT was obs	erved	OVIS	OVIS	OVIS	01,12
1 AN	A.	(A)	(R)	à	S al	1 A	(A)	-A	(A)	
			Oli		ON					
	07.				04.		04.			
			01,		04.	04.				
2.								01		
24,	011	0%		0%			011	011	011	
		07.	01.		011.		07.	01.	01.	
21.	07.				OVIS		OVIS			
				0415-01		OVISION		OVISION		
				01		07		07		
			OVISIO				OVISION			
			0,						01	0,
			OVISIO				OVISIO	OVISIO		
							0,	07	OVIS	
					04:5.01					
	01				0%					
								0	01	0'





Report No.:OViS202405011E-R1



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 mission caused by our negligence. Provided however, that such notice shall be in writing and shall specificatly 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.

地址:浙江省台州市椒江区下陈街道飞跃科创园 31 帷 ⊒ www.ovis-lab.com ⊠ info@ovis-lab.com Add:Building 31, Feiyue Park, Xiachen Street, Jiaojiang District, Taizhou City, Zhejiang Province, China

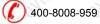




OVIS-CERT					
7.6	Voltage D	Dips and Interruption	s A	AN AN	AN AN
1:5	Test Req	uirement: EN IEC	61000-6-2:2019	1150 1150	115 1150
0	Test Meth	nod: EN 61000-4-1	1:2004 +A1:2017	9, 0,	0, 0, 0
the outs of	Performa	40	of UT (Supply Vo % of UT for 10 Pe % of UT for 25 Pe of UT for 1 Perio	riods:C;	ds:C;
St of	No. of Dip	os / Interruptions: 3	per Level	145 (H)	
is.	Time bet	ween dropout 10s	Vis	1.15 J.15	N'IS N'IS
7.6.1	Test Setu	ıp Diagram	~ ~		
	Ś				
ERT OVIS-C		nd Reference Plane, Uolta Dips/Inte Gene	rruption rator	Ference Plane	EInsulating Support(0.1m)
AT 01150	E.U.T. Op	nd Reference Plane Dips/Inte Gene	age rruption rator		
AT 01150 AT 01150 7.6.2	E.U.T. Operating	Deration g Environment:	age rruption rator Ground Re	ference Plane	
2.6.2	E.U.T. Operating Temperating	Deration g Environment: ture: 22°C Humic	Ground Re	ference Plane	
AT OVISIÓ	E.U.T. Op Operating Temperat Test mod	Deration g Environment: ture: 22°C Humic	Ground Re	ference Plane	
AT OVISIO	E.U.T. Operating Temperating	Deration g Environment: ture: 22°C Humic	Ground Re	ference Plane	
AT OVISIO	E.U.T. Op Operating Temperat Test mod Test Rest	Deration g Environment: ture: 22°C Humic	Ground Re	ference Plane	
7.6.3 Level ^o 0	E.U.T. Op Operating Temperat Test mod Test Rest % UT	Deration g Environment: ture: 22°C Humic le:Normal Working_l ults: Phase (deg) 0	age rruption rator Ground Re lity: 51 % RH Atm keep EUT running Duration 1 Cycles	ference Plane Dospheric Pressure: 1 continual . No. of Dips / Interruptions 3	E 1020 mbar Result / Observations
7.6.3 Level ^o 0	E.U.T. Operating Operating Temperat Test mod Test Rest	Deration g Environment: ture: 22°C Humic le:Normal Working_I ults: Phase (deg) 0 180°	age rruption rator Ground Re Ground Re EUT running Duration 1 Cycles 1 Cycles	ference Plane	E 1020 mbar Result / Observations A A
7.6.3 Level ⁰ 0 40	E.U.T. Op Operating Temperat Test mod Test Res % UT	Deration g Environment: ture: 22°C Humic le:Normal Working_I ults: Phase (deg) 0 180° 0	Ground Re Ground Re lity: 51 % RH Atm keep EUT running Duration 1 Cycles 1 Cycles 10 Cycles	ference Plane	E 1020 mbar Result / Observations A A A A
7.6.3 Level ⁶ 0 40 40	E.U.T. Op Operating Temperat Test mod Test Rest % UT	Deration g Environment: ture: 22°C Humic le:Normal Working_I ults: Phase (deg) 0 180° 0 180°	Ity: 51 % RH Atm ceep EUT running Duration 1 Cycles 10 Cycles 10 Cycles	ference Plane	Illications Result / Observations A A A A A
7.6.3 Level ⁰ 0 40 40 70	E.U.T. Op Operating Temperat Test mod Test Res % UT	Deration g Environment: ture: 22°C Humic le:Normal Working_I ults: Phase (deg) 0 180° 0 180° 0	age rruption rator Ground Re Ground Re Lity: 51 % RH Atm keep EUT running Duration 1 Cycles 10 Cycles 10 Cycles 25 Cycles	ference Plane	E 1020 mbar Result / Observations A A A A A A A
7.6.3 Level ⁶ 0 40 40	E.U.T. Op Operating Temperat Test mod Test Resu % UT	Deration g Environment: ture: 22°C Humic le:Normal Working_I ults: Phase (deg) 0 180° 0 180°	Ity: 51 % RH Atm ceep EUT running Duration 1 Cycles 10 Cycles 10 Cycles	ference Plane	Illications Result / Observations A A A A A

OVIS-CERT 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.

地址:浙江省台州市椒江区下陈街道飞跃科创园 31 幢 旦 www.ovis-lab.com ⊠ info@ovis-lab.com Add:Building 31, Feiyue Park, Xiachen Street, Jiaojiang District, Taizhou City, Zhejiang Province, China



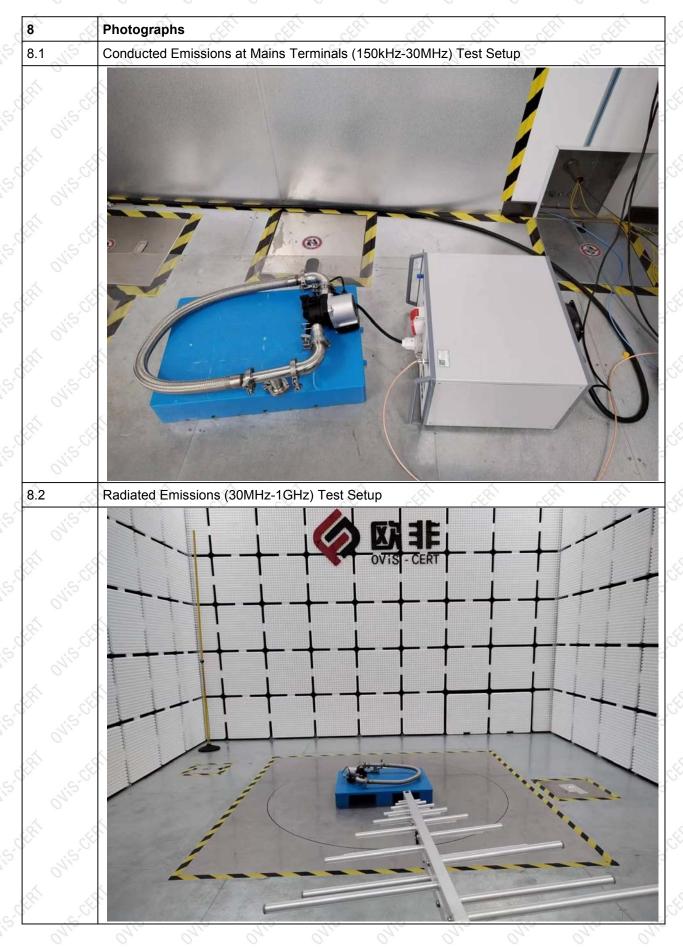


OVIS-CERT OVIS

Test Requirement: EN IEC 61000-6-2:2019 Test Method: EN 61000-4-3:2006 +A1:2008+A2:2010 Performance Criterion: A Frequency Range: 80MHz to 3.6GHz Antenna Polarisation: Vertical and Horizontal Modulation: 1kHz,80% Amp. Mod,1% increment 7.7.1 Test Setup Diagram	SCERT C
Performance Criterion: A Frequency Range: 80MHz to 3.6GHz Antenna Polarisation: Vertical and Horizontal Modulation: 1kHz,80% Amp. Mod,1% increment 7.7.1 Test Setup Diagram	
Frequency Range: 80MHz to 3.6GHz Antenna Polarisation: Vertical and Horizontal Modulation: 1kHz,80% Amp. Mod,1% increment 7.7.1 Test Setup Diagram Camera Antenna	
Antenna Polarisation: Vertical and Horizontal Modulation: 1kHz,80% Amp. Mod,1% increment 7.7.1 Test Setup Diagram Camera	
Modulation: 1kHz,80% Amp. Mod,1% increment 7.7.1 Test Setup Diagram Camera Antenna	CERT C
7.7.1 Test Setup Diagram	SERIE C
Camera	CERT C
Antenna	, steril
7.7.2 E.U.T. Operation Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar	
Test mode:Normal Working_keep EUT running continual .	4
7.7.3 Test Results:	C.CET
Frequency Level (V/m) EUT Face Dwell time Result / Ot	
80MHz-1GHz 10 Front 3s A 80MHz-1GHz 10 Back 3s A	~ ~
80MHz-1GHz 10 Left 3s A	C.C.
80MHz-1GHz 10 Right 3s A 1GHz-3.6GHz 3 Front 3s A	
1GHz-3.6GHz 3 Holit 3s 4 1GHz-3.6GHz 3 Back 3s 4	Á
1GHz-3.6GHz 3 Left 3s A	2.00
1GHz-3.6GHz 3 Right 3s Results:	



Report No.:OViS202405011E-R1



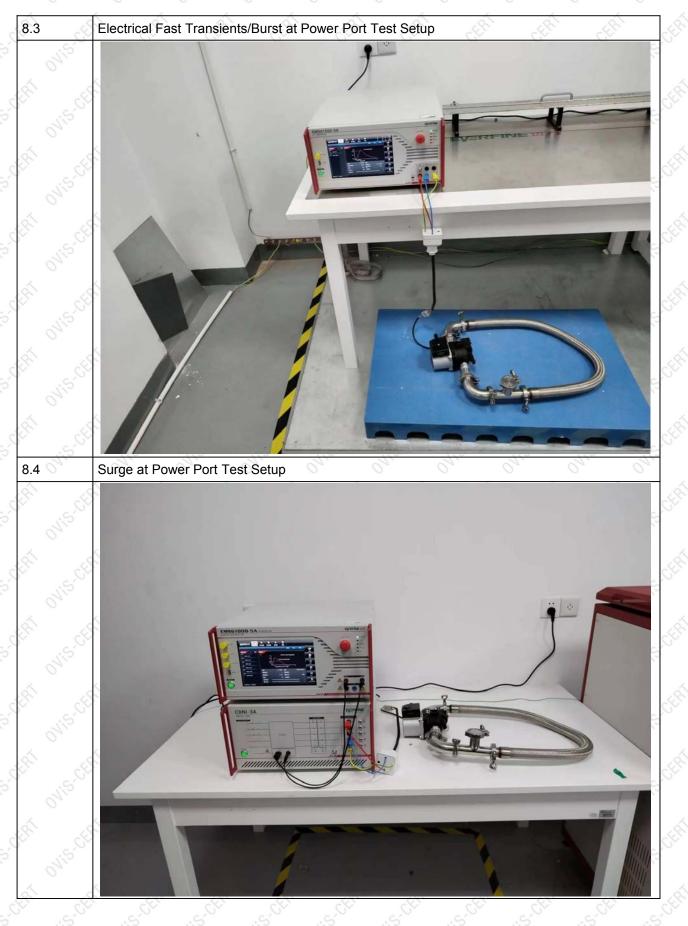
This Test Report is issued by the Company subject to its Conditions of issuance of Test Reports printed overleaf and is intended for your exclusive use Attention is drawn to the limitations of liability,indemnification and jurisdictional policies defined therein. This test report includes all of the 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 mission caused by our neglegicnee. Provided however, that such notice shall be in writing and shall specificatily 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.

欧非亚美检测技术(浙江)有限公司(OViS) OViS Testing Technology (Zhejiang) Co., Ltd. 地址:浙江省台州市椒江区下陈街道飞跃科创园 31 幢 ⊒ www.ovis-lab.com ⊠ info@ovis-lab.com Add:Building 31, Feiyue Park, Xiachen Street, Jiaojiang District, Taizhou City, Zhejiang Province, China



Page 23 of 25

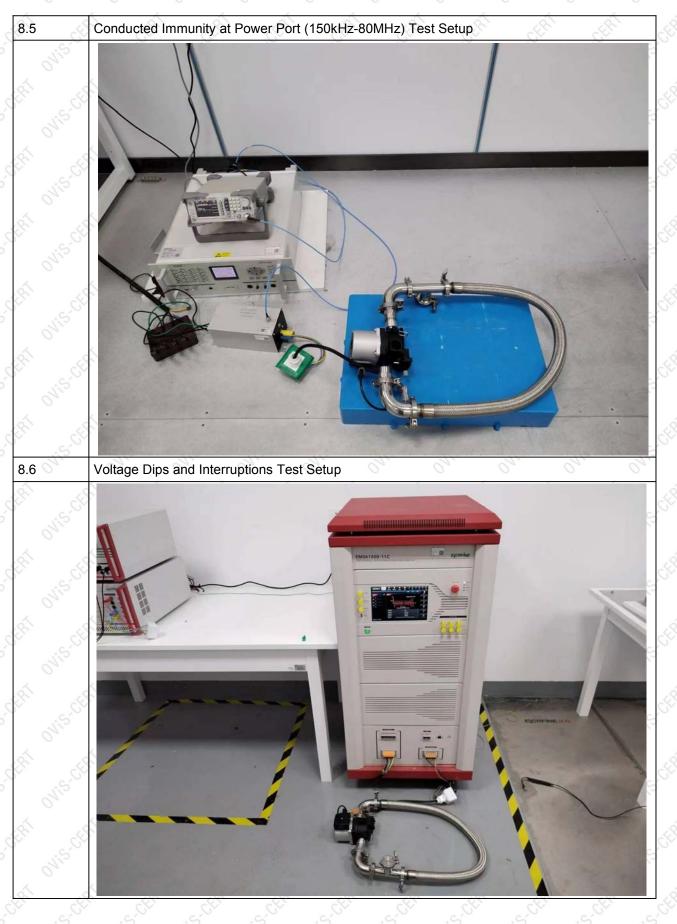
Report No.: OViS202405011E-R1



(ſ



Report No.:OViS202405011E-R1



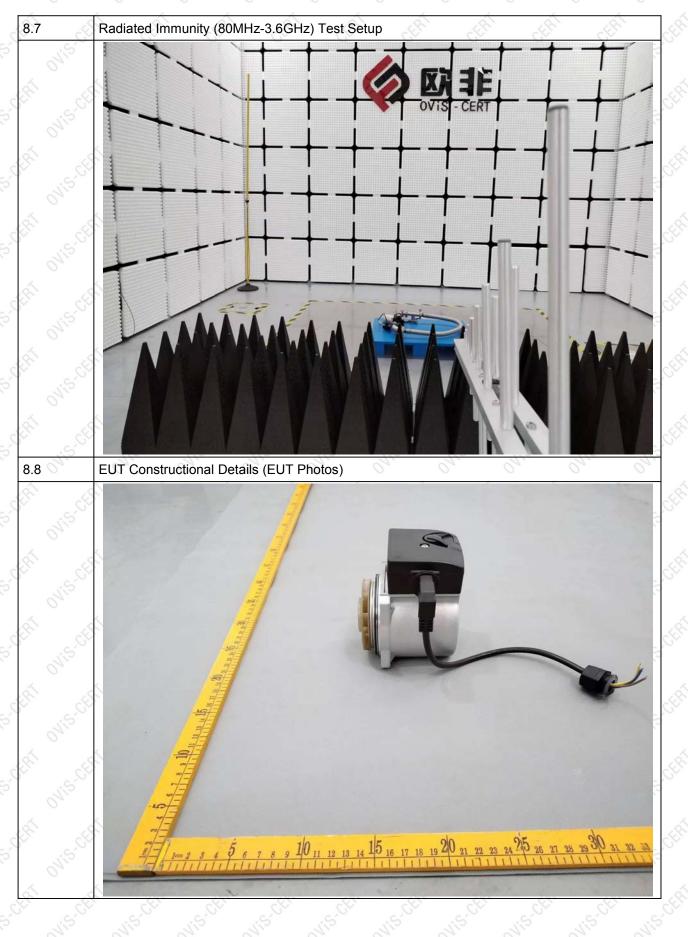
This Test Report is issued by the Company subject to its Conditions of issuance of Test Reports printed overleaf and is intended for your exclusive use Attention is drawn to the limitations of liability,indemnification and jurisdictional policies defined therein. This test report includes all of the 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 mission caused by our neglegence. Provided however, that such notice shall be in writing and shall specificately 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.

400-8008-959

(f



Report No.:OViS202405011E-R1



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 mission caused by our negligence. Provided however, that such notice shall be in writing and shall specificatly address the issue you wish to raise. A failure to raise such issue within the prescribed time of the report contents.

欧非亚美检测技术(浙江)有限公司(OViS) OViS Testing Technology (Zhejiang) Co., Ltd. 地址:浙江省台州市椒江区下陈街道飞跃科创园 31 幢 ⊒ www.ovis-lab.com ⊠ info@ovis-lab.com Add:Building 31, Feiyue Park, Xiachen Street, Jiaojiang District, Taizhou City, Zhejiang Province, China



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/A" or "—" means "not applicable" and " / "means "not test".

Address: Building 31, Feiyue Park, Xiachen Street, Jiaojiang District, Taizhou City, Zhejiang Province, China Tel: 400-8008-959 Post Code: 318000 E-mail:info@ovis-lab.com http://www.ovis-lab.com

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 fissuance of this test report to notify us of any error or ornission caused by our neglegnce. Provided, however, that such notice shall be in writing and shall specificatily 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.

欧非亚美检测技术(浙江)有限公司(OViS) W址:浙江省台州市椒江区下陈街道飞跃科创园 31 幢 呈 www.ovis-lab.com ⊠ info@ovis-lab.com OVIS Testing Technology (Zhejiang) Co., Ltd.

