

RF Exposure Report

Report No.: AGC11896210501FH03

APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : NitroCharge 30 Pro
BRAND NAME : EXCITRUS
MODEL NAME : PDW30100P
APPLICANT : MODO Innovation Technology Co., Ltd.
DATE OF ISSUE : Jun. 10, 2021
STANDARD(S) : KDB680106 D01 RF Exposure Wireless Charging Base
App v03r01
REPORT VERSION : V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 10, 2021	Valid	Initial Release

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TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY.....	4
2. GENERAL INFORMATION	5
2.1. PRODUCT DESCRIPTION	5
3. DESCRIPTION OF TEST MODES	6
4. SYSTEM TEST CONFIGURATION.....	6
5. TEST FACILITY	7
6. RADIO FREQUENCY(RF) EXPOSURETEST	8
6.1. LIMITS	8
6.2. TEST SETUP.....	8
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	12

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1. VERIFICATION OF CONFORMITY

Applicant	MODO Innovation Technology Co., Ltd.
Address	412, building 1, Xinyi Lingyu R&D center, No.30, Honglang North 2nd Road, Xin'an street, Bao'an District, Shenzhen, China.
Manufacturer	MODO Innovation Technology Co., Ltd.
Address	412, building 1, Xinyi Lingyu R&D center, No.30, Honglang North 2nd Road, Xin'an street, Bao'an District, Shenzhen, China.
Factory	MODO Innovation Technology Co., Ltd.
Address	412, building 1, Xinyi Lingyu R&D center, No.30, Honglang North 2nd Road, Xin'an street, Bao'an District, Shenzhen, China.
Product Designation	NitroCharge 30 Pro
Brand Name	EXCITRUS
Test Model	PDW30100P
Date of test	May 12, 2021 to Jun. 10, 2021
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in KDB680106 D01.

The results of testing in this report apply to the product/system which was tested only.

Prepared By

Kelly Cheng

Kelly Cheng
(Project Engineer)

Jun. 10, 2021

Reviewed By

Max Zhang

Max Zhang
(Reviewer)

Jun. 10, 2021

Approved By

Forrest Lei

Forrest Lei
(Authorized Officer)

Jun. 10, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	111-205kHz
Test Frequency	120.2kHz
Maximum field strength	53.73dBuV/m(PK)@3m
Number of channels	1
Antenna Designation	Coil Antenna (Met 15.203 Antenna requirement)
Hardware Version	V1.2
Software Version	V2.7
Power Supply	Capacity: 37Wh, 10000mAh USB-C Input: 30W MAX, 20V1.5A,15V2A,12V2.5A,9V/5V3A USB-C Output: 33W MAX, 20V1.5A,15V2A,12V2.5A, 9V/5V3A, PPS: 3.3-11V 3A USB-A Output: 18W MAX,12V1.5A, 9V2A, 5V3A, Wireless Output:10W MAX
Wireless charger	Max 10W

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3. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	USB-C input PD 20V 1.5A+Wireless charging Mode(Full load 10W)+USB-A output 5V 2A
2	USB-C input PD 15V 2A+Wireless charging Mode(Full load 10W)+USB-A output 5V 2A
3	USB-C input PD 12V 2.5A+Wireless charging Mode(Full load 10W)+USB-A output 5V 2A
4	USB-C input PD 9V 3A+Wireless charging Mode(Full load 10W)+USB-A output 5V 2A
5	USB-C input PD 5V 3A+Wireless charging Mode(Full load 10W)+USB-A output 5V 1A
6	Wireless charging Mode(Full load 10W)+USB-A output 5V 1A+USB-C output 5V 1A
7	Wireless charging Mode(Full load 10W)+USB-A output 5V 2A
8	Wireless charging Mode(Full load 10W)+USB-C output 5V 2A
9	Wireless charging Mode(Half load 5W)+USB-A output 5V 3A
10	Wireless charging Mode(Half load 5W)+USB-C output 5V 3A
11	Wireless charging Mode(Null load)+USB-C output 5V 3A+USB-A output 5V 1A
Note:	
1. The mode 1 was the worst case and only the data of the worst case record in this report.	

4. SYSTEM TEST CONFIGURATION

Item	Equipment	Model No.	ID or Specification	Remark
1	NitroCharge 30 Pro	PDW30100P	2ARYFPDW30100P	EUT
2	Wireless Load	N/A	15W	AE
3.	USB Load	N/A	N/A	AE

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5. TEST FACILITY

TestSite	Attestation of Global Compliance(Shenzhen) Co., Ltd
Location	1-2/F,Building19,JunfengIndustrialPark,ChongqingRoad,HepingCommunity,FuhaiStreet,Bao'anDistrict,Shenzhen,Guangdong,China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT LIST

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Broadband Field Meter	Narda Safety Test Solutions GmbH	ELT-400	J-0004	Jul.03,2020	Jul. 02, 2021
Probe FHP	Narda Safety Test Solutions GmbH	2300/90.10	J-0015	Jul.03,2020	Jul. 02, 2021

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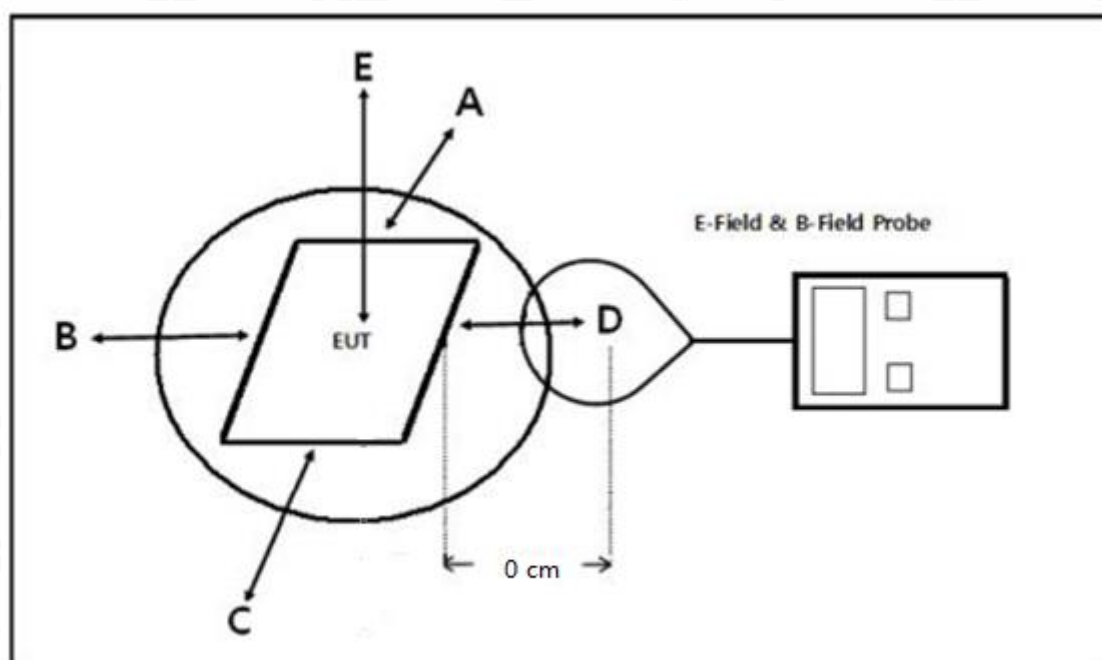


6. RADIO FREQUENCY(RF) EXPOSURE TEST

6.1. LIMITS

For devices designed for typical desktop applications, such as wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 0 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 0 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m.

6.2. TEST SETUP



Note: Position A: Front of EUT; Position B: Left of EUT; Position C: back of EUT; Position D: Right of EUT; Position E: Top of EUT(0 cm measure distance);

According to April 2018 TCB Workshop, for inductive applications where the primary does not physically attach (clip, lock on) to the client, and it is intended for desktop use, the desktop guidance in KDB 680106 D01 may be applied.

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6.3. TEST PROCEDURE

The EUT was placed on a non-conductive table top and the ancillary equipment (e.g. mobile phone) was placed on the EUT for charging.

Maximum E-field and H-field measurements were tested 0cm from each side of the EUT. For top side the measure distance is 0cm.

Along the side of the EUT to center of E-field probe and H-field probe were positioned at the location to search maximum field strength.

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6.4. TEST RESULT

Test condition: Mode 1

E-field strength test result:

Frequency Range	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Limit (V/m)
120.2kHz	0.88	0.83	0.85	0.86	0.98	614

H-field strength test result:

Frequency Range	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Limit (A/m)
120.2kHz	0.32	0.29	0.28	0.27	0.45	1.63

Test condition: Mode 2

E-field strength test result:

Frequency Range	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Limit (V/m)
127.3kHz	0.88	0.85	0.89	0.84	0.97	614

H-field strength test result:

Frequency Range	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Limit (A/m)
127.3kHz	0.34	0.28	0.33	0.29	0.48	1.63

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Test condition: Mode 3

E-field strength test result:

Frequency Range	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Limit (V/m)
133.6kHz	0.88	0.83	0.87	0.85	0.99	614

H-field strength test result:

Frequency Range	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Limit (A/m)
133.6kHz	0.35	0.29	0.26	0.27	0.48	1.63

Conclusion: The test value is less than 50% MPE limit, which meets the requirements

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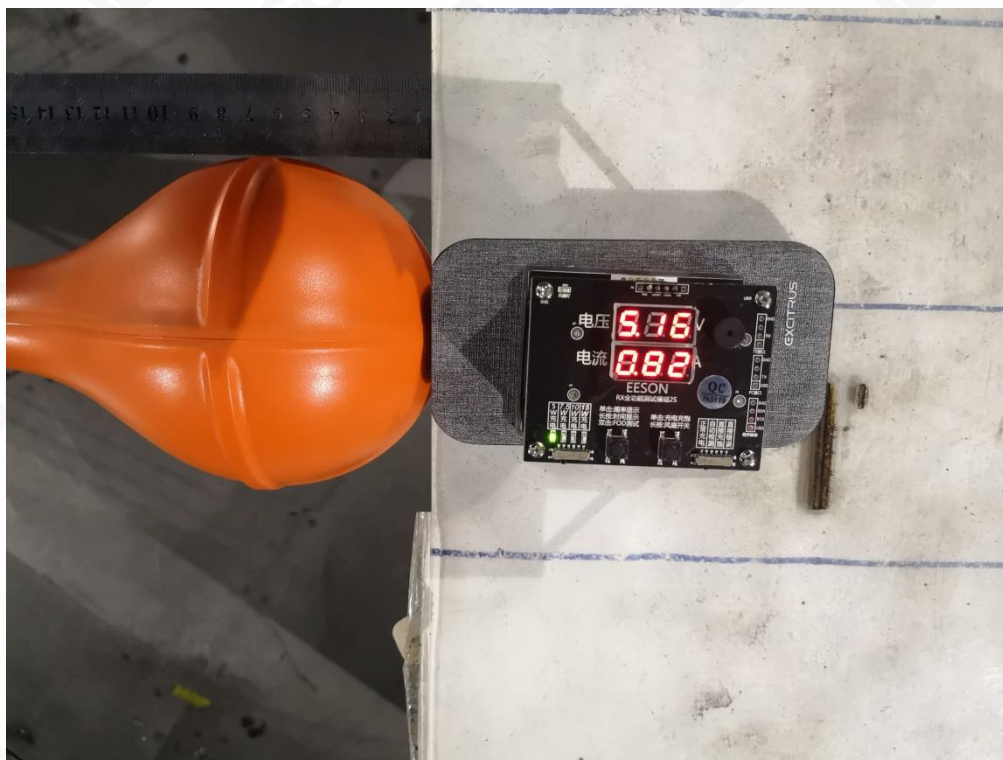


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Position E



Position A

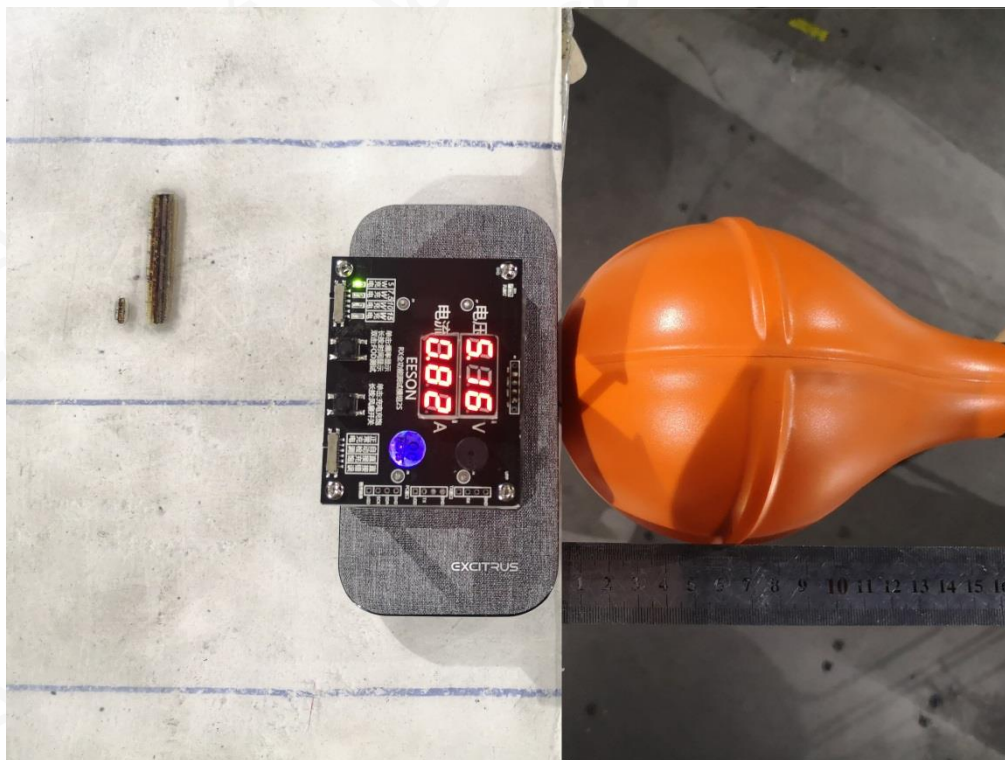


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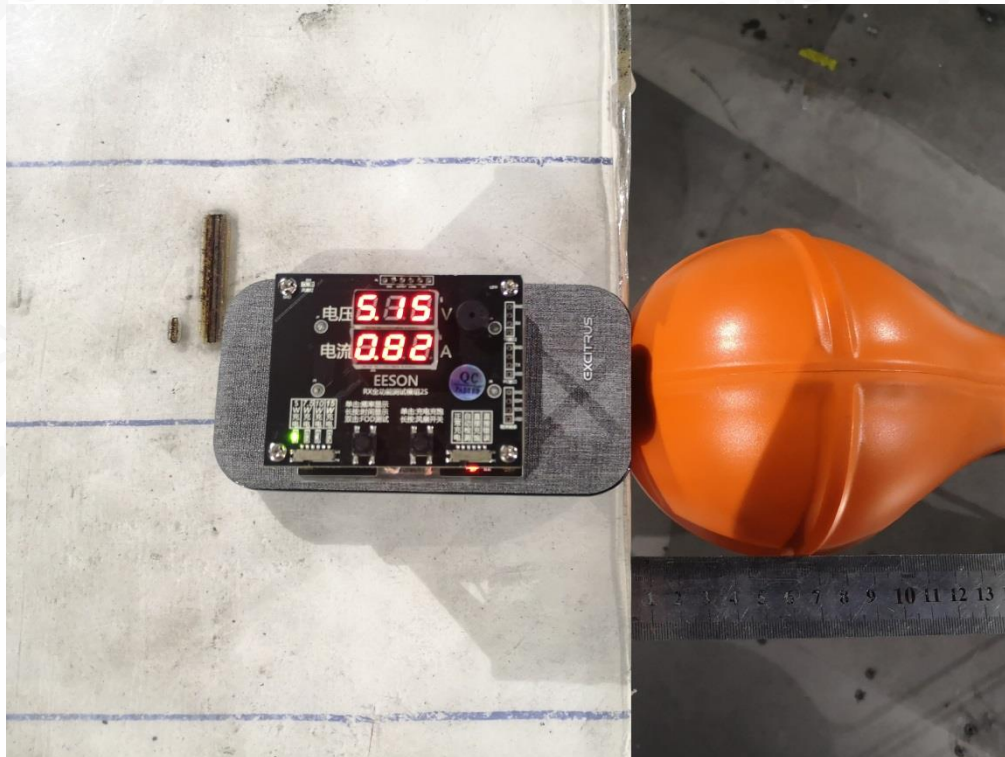
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Position B



Position C

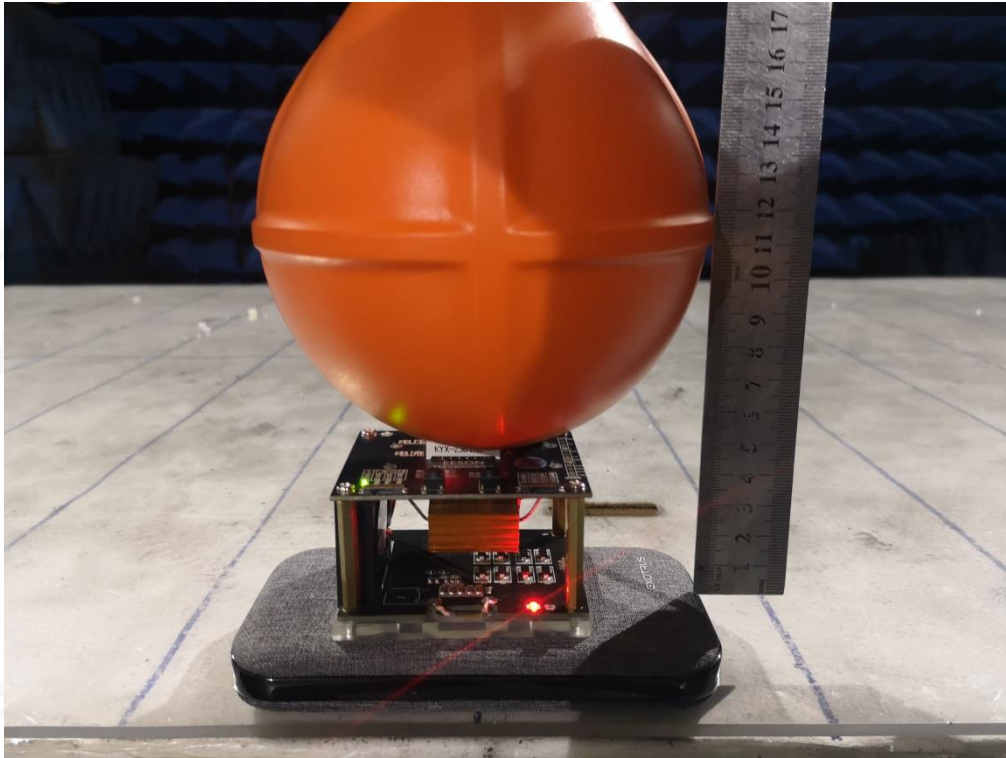


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Position D



----END OF REPORT----

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1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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