

# RF Exposure Report

Report No.: AGC16735250503FH01

**FCC ID** : 2BNL5-648636

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : 15WATTS MAGNETIC WIRELESS CAR-CHARGE

**BRAND NAME** : ionix

**MODEL NAME** : 15WMC-10/24, 648636

**APPLICANT** : LI KUM TRADING CO., LIMITED

**DATE OF ISSUE** : Jun. 13, 2025

**STANDARD(S)** : 47 CFR FCC Part 2.1091  
47 CFR FCC Part 2.1093  
KDB 680106 D01 v04

**REPORT VERSION** : V1.0

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**Report Revise Record**

| Report Version | Revise Time | Issued Date   | Valid Version | Notes           |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0           | /           | Jun. 13, 2025 | Valid         | Initial Release |

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**1. General Information**

|                              |   |
|------------------------------|---|
| Applicant                    | LI KUM TRADING CO., LIMITED   |
| Address                      | SHOP 185 G/F HANG WAI IND CTR NO 6 KIN TAI ST TUEN MUN NT, HK, China  |
| Manufacturer                 | PHUC VINH ELECTRONICS COMPANY LIMITED   |
| Address                      | Than Canh Phuc Street, Hung Lam 1 Residential Area, Hong Thai Ward, Viet Yen Town, Bac Giang Province, Vietnam. |
| Factory                      | PHUC VINH ELECTRONICS COMPANY LIMITED   |
| Address                      | Than Canh Phuc Street, Hung Lam 1 Residential Area, Hong Thai Ward, Viet Yen Town, Bac Giang Province, Vietnam. |
| Product Designation          | 15WATTS MAGNETIC WIRELESS CAR-CHARGE  |
| Brand Name                   | ionix   |
| Test Model                   | 15WMC-10/24   |
| Series Model(s)              | 648636  |
| Difference Description       | All the same except for the model name.   |
| Date of receipt of test item | May 27, 2025  |
| Date of Test                 | May 27, 2025 to Jun. 13, 2025   |
| Deviation from Standard      | No any deviation from the test method   |
| Condition of Test Sample     | Normal  |
| Test Result                  | Pass  |
| Test Report Form No          | AGCER-FCC-RFE-V1  |

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By



Jack Gui

(Project Engineer)

Jun. 13, 2025

Reviewed By



Bibo Zhang

(Reviewer)

Jun. 13, 2025

Approved By



Angela Li

(Authorized Officer)

Jun. 13, 2025

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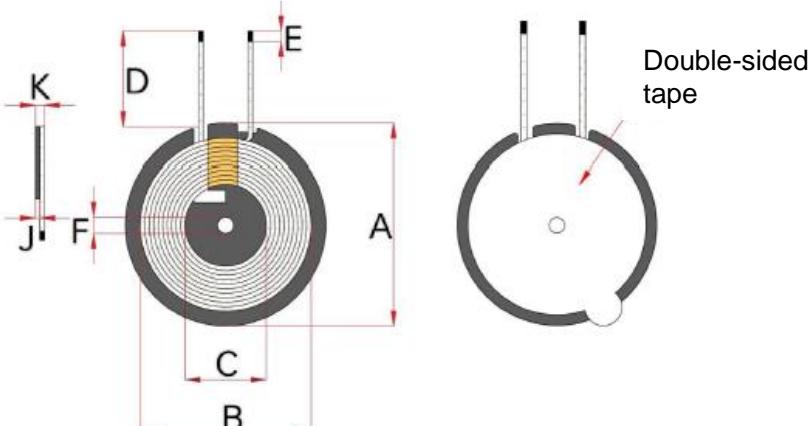
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## 2. Product Information

### 2.1 Product Technical Description

|                          |                     |
|--------------------------|---------------------|
| Operation Frequency Band | 110.5kHz-205kHz     |
| Hardware Version         | V1.1                |
| Software Version         | V1.0                |
| Modulation Type          | ASK                 |
| Antenna Designation      | Coil Antenna        |
| Input Rating             | DC 5V/2A, DC 9V/2A  |
| Output Rating            | 5W/7.5W/10W/15W Max |

### 2.2 DUT Coil and Size Information

|                            |   |          |          |         |       |         |         |
|----------------------------|---|----------|----------|---------|-------|---------|---------|
| Output Power for Each Coil | 5W/7.5W/10W/15W Max   |          |          |         |       |         |         |
| Distance to transmitter:   | Top: 1.8mm;Bottom: 5.5mm;Left: 10.6mm;Right: 44.5mm;Front:9.0mm Rear:9.0mm          |          |          |         |       |         |         |
| DUT Size                   |  |          |          |         |       |         |         |
| Unit: mm                   | A   | B        | C        | D       | E     | F       | J       |
|                            | 43.5±0.5  | 40.5±0.5 | 20.5±0.5 | 100mm±2 | 3mm±2 | 5.3mm±2 | 2.3±0.1 |
|                            | /   | /        | /        | /       | /     | /       | /       |
|                            | /   | /        | /        | /       | /     | /       | /       |

Remark: The information above are provided by the manufacturer. More detailed feature of the EUT please refers to the user manual.

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### 2.3 Related Submittal(S)/Grant (S)

This submittal(s) (test report) is intended for **FCC ID: 2BNL5-648636**, filing to comply with Part 2.1091&2.1093 of the Federal Communication Commission rules.

### 2.4 Test Methodology

The tests were performed according to following standards:

| No. | Identity               | Document Title  |
|-----|------------------------|---|
| 1   | FCC 47 CFR Part 2.1091 | Radiofrequency Radiation Exposure Evaluation: Mobile Devices.   |
| 2   | FCC 47 CFR Part 2.1093 | Radiofrequency Radiation Exposure Evaluation: Portable Devices. |
| 3   | KDB 680106             | D01 RF Exposure Wireless Charging Base App v04                  |

### 2.5 Equipment Approval Considerations

| No. | Requirements  | Conditions of the EUT                   |
|-----|---|---|
| 1   | WPT operating frequency (or frequencies).   | 110.5~205kHz                            |
| 2   | Number of radiating structure (Coil)  | Only one coil                           |
| 3   | Conducted Power for each radiating structure  | The maximum power is 15W                |
| 4   | §2.1091-Mobile or §2.1093-Portable demonstrated scenarios of operation, including RF exposure compliance information      | Mobile and Portable Device              |
| 5   | Maximum distance from the WPT transmitter at which, by design, a load can be charged (including slow-charging operations) | Charging with the load contact directly |

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### 3. Test Environment

#### 3.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

#### 3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

##### **CNAS-Lab Code: L5488**

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories.)

##### **A2LA-Lab Cert. No.: 5054.02**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

##### **FCC-Registration No.: 975832**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

##### **IC-Registration No.: 24842(CAB identifier: CN0063)**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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### 3.3 Environmental Conditions

|                         | Normal Conditions | Extreme Conditions |
|-------------------------|-------------------|--------------------|
| Temperature range (°C)  | 15 - 35           | -20 - 50           |
| Relative humidity range | 20 % - 75 %       | 20 % - 75 %        |
| Pressure range (kPa)    | 86 - 106          | 86 - 106           |

Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.

### 3.4 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

| Test Items                      | Measurement Uncertainty |
|---------------------------------|-------------------------|
| E-Field Strength (0.003-0.4MHz) | ±1.5dB                  |
| E-Field Strength (0.4-10MHz)    | ±1.3dB                  |
| H-Field Strength (0.003-0.4MHz) | ±1.3dB                  |
| H-Field Strength (0.4-10MHz)    | ±1.2dB                  |

### 3.5 List of Equipment Used

| Used                                | Equipment No. | Test Equipment        | Manufacturer | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
|-------------------------------------|---------------|-----------------------|--------------|-----------|------------|---------------------------|---------------------------|
| <input checked="" type="checkbox"/> | AGC-RF-011    | Broadband Field Meter | WAVECONTROL  | SMP2      | J-0004     | 2024-06-06                | 2025-06-05                |
| <input checked="" type="checkbox"/> | AGC-RF-011    | Broadband Field Meter | WAVECONTROL  | SMP2      | J-0004     | 2026-06-05                | 2027-06-04                |
| <input checked="" type="checkbox"/> | AGC-RF-012    | Probe FHP             | WAVECONTROL  | WP400     | J-0015     | 2024-06-06                | 2025-06-05                |
| <input checked="" type="checkbox"/> | AGC-RF-012    | Probe FHP             | WAVECONTROL  | WP400     | J-0015     | 2026-06-05                | 2027-06-04                |

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## 4. System Test Configuration

### 4.1 Configuration of Tested System



### 4.2 Equipment Used in Tested System

The following peripheral devices and interface cables were connected during the measurement:

Test Accessories Come from the Laboratory

| No. | Equipment              | Manufacturer | Model No. | Specification Information   | Cable |
|-----|------------------------|--------------|-----------|---|-------|
| 1   | Wireless Charging Load | YBZ          | Q12       | Support 5W,7.5W, 10W,15W  | --    |
| 2   | Adapter                | Xiaomi       | DY-14-EU  | Input: AC: 100V-240V 50/60Hz 2.0A<br>Output: USB-A/C (DC 5V/3A;9V/3A;11V/6.1A;11V/6A; 20V2.25A) | --    |

Test Accessories Come From The Manufacturer

| No. | Equipment | Model No. | Manufacturer | Specification Information | Cable         |
|-----|-----------|-----------|--------------|---------------------------|---------------|
| 1   | USB Cable | --        | --           | --                        | 1m unshielded |

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## 5. Description of Test Modes

| No. | Test Mode Description                         | Exposure Conditions |
|-----|---|---------------------|
| 1   | AC/DC Adapter + EUT + Wireless load-Null load | Mobile              |
| 2   | AC/DC Adapter + EUT + Wireless load-15W       | Mobile              |
| 3   | AC/DC Adapter + EUT + Wireless load-10W       | Mobile              |
| 4   | AC/DC Adapter + EUT + Wireless load-7.5W      | Mobile              |
| 5   | AC/DC Adapter + EUT + Wireless load-5W        | Mobile              |

**Note:**

1. The EUT supports 15W, 10W, 7.5W, 5W "wireless output, and all modes have been tested at full load, half load and null load, only the worst mode is reflected in the report.
2. Only the result of the worst case (Mode 2- full load-15W) was recorded in the report, if no other cases.

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## 6. Maximum Permissible Exposure

### 6.1 Test Limits

| Frequency Range (MHz)  | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (A) Limits for Occupational/Controlled Exposures   |                               |                               |                                     |                          |
| 0.3-3.0  | 614                           | 1.63                          | *(100)                              | 6                        |
| 3.0-30   | 1842/f                        | 4.89/f                        | *(900/f <sup>2</sup> )              | 6                        |
| 30-300   | 61.4                          | 0.163                         | 1.0                                 | 6                        |
| 300-1500   | /                             | /                             | f/300                               | 6                        |
| 1500-100,000   | /                             | /                             | 5                                   | 6                        |
| (B) Limits for General Population/Uncontrolled Exposure  |                               |                               |                                     |                          |
| 0.3-1.34   | 614                           | 1.63                          | *(100)                              | 30                       |
| 1.34-30  | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | 30                       |
| 30-300   | 27.5                          | 0.073                         | 0.2                                 | 30                       |
| 300-1500   | /                             | /                             | f/1500                              | 30                       |
| 1500-100,000   | /                             | /                             | 1.0                                 | 30                       |
| <ul style="list-style-type: none"> <li>● F=frequency in MHz</li> <li>● * =Plane-wave equivalent power density</li> <li>● RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz: 614V/m,1.63A/m).</li> <li>● Per KDB 680106 D01 v04, RF exposure evaluation at 20cm surrounding the device and 20cm above the top surface. Emission between 50 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 1.63/A/m and aggregate H-field strengths from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.</li> </ul> |                               |                               |                                     |                          |

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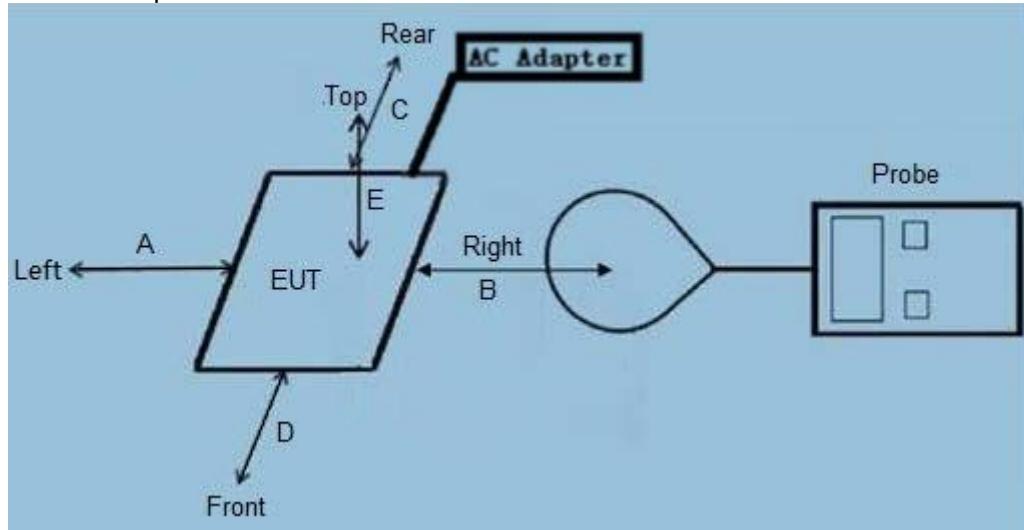
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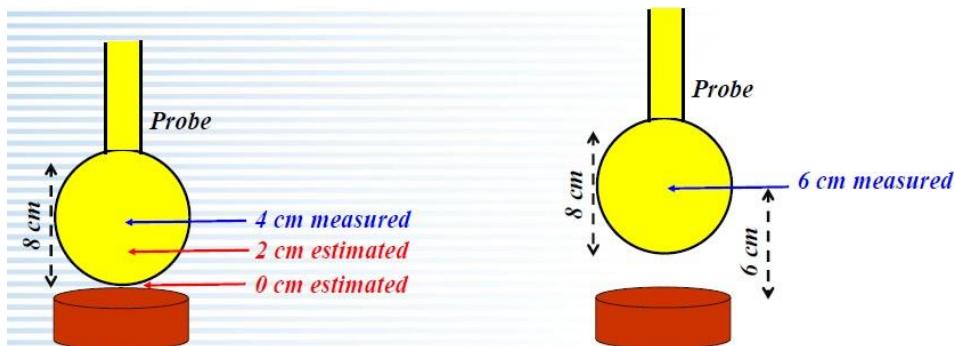
## 6.2 Test Setup (Block Diagram of Configuration)

- For Mobile Test Setup:



Note: The distance of the points A/B/C/D/E is 20cm.

Perform H-field/E-field measurements are taken along all three axes the device from 0cm~20cm in 2cm minimum increment for each edge surface of the host/client pair. If the center of the probe sensing element is more than 5mm from the probe outer edge, the field strengths need to be estimated for the positions that are not reachable.



*Example of probe measurements in points close to the device surface:  
 estimates compared with measurements at 4 and 6 cm provide validation*

According to Calibration information and specification about WP400 Probe, The Probe WP400 Probe's sensitive elements center is located in the probe's center, and the dimensions is 12.5x12.5mm. so the actual 0cm field strengths need to be estimated for the positions that are not reachable. The Extrapolated Value Calculation Method please Refer item 7). And the result of test distance 2cm~20cm was measured value.

| WP400 Probe | Length | Width  | Radius |
|-------------|--------|--------|--------|
|             | 12.5cm | 12.5cm | 6.25cm |

Note: The device is a coil emitting structure, just need to evaluated H-field.

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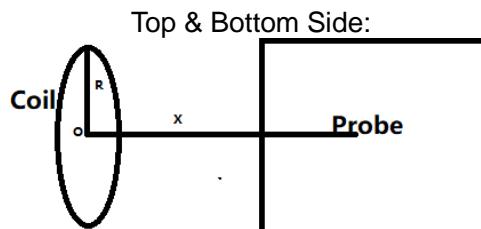
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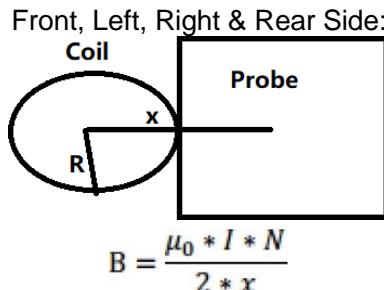
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### 6.3 Test Procedures

- For Mobile Exposure Conditions:
  - a) The RF exposure test was performed in anechoic chamber;
  - b) E and H-field measurements should be made with the center of the probe at a distance of 20cm surrounding the EUT.
  - c) The highest emission level was recorded and compared with limit.
  - d) The EUT was measured according to the dictates of KDB 680106 v04.
- For Portable Exposure Conditions:
  - a) The RF exposure test was performed in anechoic chamber;
  - b) H-field measurements should be made along all three axes the device from 0cm~20cm in 2cm minimum increment for each edge surface of the host/client pair. If the center of the probe sensing element is more than 5mm from the probe outer edge, the field strengths need to be estimated for the positions that are not reachable, and the estimation methods are:
    - determine the distance from the test probe's sensitive elements to the probe tip based on the calibration information and/or specification of the test probe.
    - Use Biot-Savart law, equation and the measured value building mathematical model, where Biot-Savart equation is:



$$B = \frac{\mu_0 * I * N * R^2}{2 * (R^2 + x^2)^{3/2}}$$



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| Symbol Definition |  |
|-------------------|--|
| B                 | means H-field value. (Unit: A/m)   |
| $\mu_0$           | is space permeability, $\mu_0=4\pi \times 10^{-7}$ .   |
| I                 | a current element passing through a coil. (Unit: A)  |
| R                 | the distance from the center point of the wireless charging device to other edges.<br>$R=40.0/2=20.0\text{mm}=0.2\text{cm}$  |
| x                 | means the evaluated point to the coil center.<br>(For top & bottom side: x=test distance; For other side: x=test distance+R) |
| N                 | Number of turns, according to provided "Antenna specification" files: N=11   |

- Validate numerical calculation model through the probe measurements for the two closest points the device surface, and with 2cm increments, to ensure the value to show a 30% agreement between the model and the probe measurements.
- Estimate H-field strengths for the positions that are not reachable via numerical calculation.

- a) Test performed with all the radiating structures operating at maximum power at the same time.
- b) The highest emission level was recorded and compared with limit.
- c) The EUT was measured according to the dictates of KDB 680106 v04

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## 6.4 Test Result

- Mobile devices are evaluated as follows:

| Worst Mode | Test Position | Distance (cm) | H-Field Strength (A/m) | Limit (A/m) | Result |
|------------|---------------|---------------|------------------------|-------------|--------|
| Mode 2     | Side A        | 20            | 0.315                  | 1.63        | Pass   |
| Mode 2     | Side B        | 20            | 0.226                  | 1.63        | Pass   |
| Mode 2     | Side C        | 20            | 0.187                  | 1.63        | Pass   |
| Mode 2     | Side D        | 20            | 0.251                  | 1.63        | Pass   |
| Mode 2     | Side E        | 20            | 0.169                  | 1.63        | Pass   |

| Worst Mode | Test Position | Distance (cm) | E-Field Strength (V/m) | Limit (V/m) | Result |
|------------|---------------|---------------|------------------------|-------------|--------|
| Mode 2     | Side A        | 20            | 0.874                  | 614         | Pass   |
| Mode 2     | Side B        | 20            | 0.822                  | 614         | Pass   |
| Mode 2     | Side C        | 20            | 0.751                  | 614         | Pass   |
| Mode 2     | Side D        | 20            | 0.934                  | 614         | Pass   |
| Mode 2     | Side E        | 20            | 0.628                  | 614         | Pass   |

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**Appendix I: Photographs of Test Setup**

Refer to the Report No.: AGC16735250503AP01

**Appendix II: Photographs of Test EUT**

Refer to the Report No.: AGC16735250503AP02

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## Conditions of Issuance of Test Reports

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. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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 or warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

-----End of Report-----

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