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# Radio Test Report

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Report No.: AGC05443260229ER04

**PRODUCT DESIGNATION** : 3in1 foldable charging station  
**BRAND NAME** : N/A  
**MODEL NAME** : M02521  
**APPLICANT** : MID OCEAN BRANDS B.V.  
**DATE OF ISSUE** : Apr. 01, 2026  
**STANDARD(S)** : ETSI EN 300 330 V2.1.1 (2017-02)  
**REPORT VERSION** : V1.0

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**Report Revise Record**

| Report Version | Revise Time | Issued Date   | Valid Version | Notes           |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0           | /           | Apr. 01, 2026 | Valid         | Initial Release |

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## 1. General Information

|                              |                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------|
| Applicant                    | MID OCEAN BRANDS B.V.                                                                |
| Address                      | Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong. |
| Manufacturer                 | MID OCEAN BRANDS B.V.                                                                |
| Address                      | Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong. |
| Factory                      | MID OCEAN BRANDS B.V.                                                                |
| Address                      | Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong. |
| Product Designation          | 3in1 foldable charging station                                                       |
| Brand Name                   | N/A                                                                                  |
| Test Model                   | MO2521                                                                               |
| Series Model(s)              | N/A                                                                                  |
| Difference Description       | N/A                                                                                  |
| Date of receipt of test item | Feb. 26, 2026                                                                        |
| Date of Test                 | Feb. 26, 2026 to Apr. 01, 2026                                                       |
| Deviation from Standard      | No any deviation from the test method                                                |
| Condition of Test Sample     | Normal                                                                               |
| Test Result                  | Pass                                                                                 |
| Test Report Form No          | AGCER-EU-RF ID-V1                                                                    |

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

Prepared By

*Jasiel Xie*

Jasiel Xie  
(Project Engineer)

Apr. 01, 2026

Reviewed By

*Bibo Zhang*

Bibo Zhang  
(Reviewer)

Apr. 01, 2026

Approved By

*Angela Li*

Angela Li  
(Authorized Officer)

Apr. 01, 2026

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## 2. Product Information

### 2.1 Product Technical Description

|                                        |                                                                                                                                                |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment Type                         | Radio Frequency Identification Technology (RF ID)                                                                                              |
| Permitted Range of Operating Frequency | 325kHz-330kHz (Watch)                                                                                                                          |
| Hardware Version                       | V1.0                                                                                                                                           |
| Software Version                       | V1.0                                                                                                                                           |
| Modulation Type                        | ASK                                                                                                                                            |
| Receiver Category                      | Class 3                                                                                                                                        |
| Product Class                          | <input checked="" type="checkbox"/> Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> Class 4 |
| Equipment Technology                   | <input checked="" type="checkbox"/> Tagging Systems <input type="checkbox"/> System in the 27MHz Range <input type="checkbox"/> all Other      |
| Corrected Amplitude H-field            | -15.73dBμA/m@10m(Max.)                                                                                                                         |
| Antenna Designation                    | Coil Antenna                                                                                                                                   |
| Input Rating                           | DC 5V/2A, 9V/2A, 9V/3A by Adapter                                                                                                              |
| Output Rating                          | Wireless Output for Watch: 2.5W Max.                                                                                                           |

**Note:** For more details, refer to the user's manual of the EUT.

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## 2.2 Test Frequency

The nominal operating frequency 326KHz declared by the manufacturer.

## 2.3 Objective

Perform Radio Spectrum tests for CE Marking according to the provisions of article 3.2 of the Radio Equipment Directive (2014/53/EU) for the RF ID function of the EUT.

## 2.4 Test Items and The Results

The tests were performed according to following standards:

|                                     |                                                                                                                                                                                                                                                     |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ETSI EN 300 330 V2.1.1<br>(2017-02) | Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Test items and the results are as below:

| No.                                         | Test Item                                                     | Standard Require  | Condition                                                             | Result |
|---------------------------------------------|---------------------------------------------------------------|-------------------|-----------------------------------------------------------------------|--------|
| ETSI EN 300 330 for Transmitter Requirement |                                                               |                   |                                                                       |        |
| 1                                           | Permitted Range of Operating Frequencies                      | sub-clause 4.3.1  | /                                                                     | Pass   |
| 2                                           | Operating Frequency Ranges                                    | sub-clause 4.3.2  | /                                                                     | Pass   |
| 3                                           | Modulation Bandwidth                                          | sub-clause 4.3.3  | /                                                                     | Pass   |
| 4                                           | Transmitter H-field Requirements                              | sub-clause 4.3.4  | Only for equipment under class 1 and class 2                          | Pass   |
| 5                                           | Transmitter RF Carrier Current                                | sub-clause 4.3.5  | Only for equipment under class 3                                      | N/A    |
| 6                                           | Transmitter Radiated E-field                                  | sub-clause 4.3.6  | Only for equipment under class 4                                      | N/A    |
| 7                                           | Transmitter Conducted Spurious Emissions                      | sub-clause 4.3.7  | Only for equipment under class 3                                      | N/A    |
| 8                                           | Transmitter Radiated Spurious Domain Emission Limits < 30 MHz | sub-clause 4.3.8  | /                                                                     | Pass   |
| 9                                           | Transmitter radiated spurious domain emission limits > 30 MHz | sub-clause 4.3.9  | For equipment under class 1, 2 and 4                                  | Pass   |
| 10                                          | Transmitter Frequency Stability                               | sub-clause 4.3.10 | Only for channelized systems                                          | N/A    |
| ETSI EN 300 330 for Receiver Requirement    |                                                               |                   |                                                                       |        |
| 1                                           | Receiver Spurious Emissions                                   | sub-clause 4.4.2  | Does only apply to receivers which a not co-located with transmitters | N/A    |
| 2                                           | Adjacent Channel Selectivity                                  | sub-clause 4.4.3  | Only for channelized systems                                          | N/A    |
| 3                                           | Receiver locking or Desensitization                           | sub-clause 4.4.4  | Not for tagging systems                                               | N/A    |

Note: N/A means not applicable. This equipment does not meet the above test item evaluation conditions, so it is not applicable.

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### 3. Setup of Equipment Under Test

#### 3.1 Setup Configuration of EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

#### 3.2 Support Equipment

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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

| Whether support unit is used? |                        |            |           |               |
|-------------------------------|------------------------|------------|-----------|---------------|
| Yes                           |                        |            |           |               |
| Item                          | Equipment              | Trade Name | Model No. | Specification |
| 1                             | Wireless Charging Load | YBZ        | 08        | Support 5W    |

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## 4. Test Environment

### 4.1 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

### 4.2 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.

#### 4.3 Environmental Conditions

|                   |                   |                                                                                            |                                                                                                              |
|-------------------|-------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Normal Condition  | Temperature       | 15 °C to 35 °C                                                                             |                                                                                                              |
|                   | Relative humidity | 20 % to 75 %.                                                                              |                                                                                                              |
|                   | Voltage           | <input type="checkbox"/> Mains voltage                                                     | Nominal mains voltage                                                                                        |
|                   |                   | <input type="checkbox"/> Lead-acid battery                                                 | 1.1 * the nominal voltage of the battery                                                                     |
|                   |                   | <input checked="" type="checkbox"/> Other                                                  | the normal test voltage shall be that declared by the equipment provider                                     |
| Extreme Condition | Temperature       | <input type="checkbox"/> -20°C to + 55°C for Category I (General)                          |                                                                                                              |
|                   |                   | <input type="checkbox"/> -10 °C to +55 °C for Category II (Portable)                       |                                                                                                              |
|                   |                   | <input type="checkbox"/> 0 °C to +35 °C for Category III (Equipment for normal indoor use) |                                                                                                              |
|                   | Voltage           | <input type="checkbox"/> Mains voltage                                                     | ±10 %* the nominal mains voltage                                                                             |
|                   |                   | <input type="checkbox"/> Lead-acid battery                                                 | 1,3 and 0,9 multiplied by the nominal voltage of the battery                                                 |
|                   |                   | <input type="checkbox"/> Leclanché or the lithium battery                                  | Lower extreme voltage: 0.85*the nominal voltage<br>upper extreme voltage: declared by the equipment provider |
|                   |                   | <input type="checkbox"/> Nickel-cadmium battery                                            | Lower extreme voltage: 0.9*the nominal voltage<br>upper extreme voltage: declared by the equipment provider  |
|                   |                   | <input checked="" type="checkbox"/> Other                                                  | the normal test voltage shall be that declared by the equipment provider                                     |

|                   |                       |         |
|-------------------|-----------------------|---------|
| Normal Condition  | VN=nominal Voltage    | DC 9V   |
|                   | TN=normal Temperature | 25 °C   |
| Extreme Condition | VL=lower Voltage      | DC 8.0V |
|                   | TL=lower Temperature  | 0 °C    |
|                   | VH=higher Voltage     | DC 9.9V |
|                   | TH=higher Temperature | 40 °C   |

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#### 4.4 Measurement Uncertainty

| Test Items                            | Measurement Uncertainty | Notes |
|---------------------------------------|-------------------------|-------|
| Frequency error                       | 18Hz                    | (1)   |
| Transmitter power conducted           | 0.63dB                  | (1)   |
| Transmitter power Radiated            | 2.38dB                  | (1)   |
| Radiated spurious emission 9kHz-30MHz | 3.45dB                  | (1)   |
| Radiated Emissions 30~1000MHz         | 4.80 dB                 | (1)   |

Note:

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=1.96$ .

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#### 4.5 List of Equipment Used

| ● RF Conducted Test System          |               |                              |              |           |            |                           |                           |
|-------------------------------------|---------------|------------------------------|--------------|-----------|------------|---------------------------|---------------------------|
| 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-ER-E086   | Spectrum Analyzer            | KEYSIGHT     | N9020A    | MY53300860 | 2025-05-08                | 2026-05-07                |
| <input checked="" type="checkbox"/> | AGC-EM-E002   | Wireless Connectivity Tester | HP           | 8920B     | US35010161 | 2025-05-08                | 2026-05-07                |
| <input checked="" type="checkbox"/> | AGC-ER-E059   | Signal Generator             | Agilent      | N5182B    | MY53050647 | 2025-01-14                | 2027-01-13                |
| <input checked="" type="checkbox"/> | AGC-ER-E037   | Signal Generator             | Agilent      | N5182A    | MY50140530 | 2025-05-08                | 2026-05-07                |
| <input checked="" type="checkbox"/> | AGC-ER-E075   | Small Environmental Tester   | SH-242       | ESPEC     | 93008290   | 2024-08-02                | 2026-07-23                |
| <input checked="" type="checkbox"/> | AGC-EM-A007   | 30dB Attenuator              | Weinachel    | 58-30-33  | ML030      | 2025-05-31                | 2027-05-30                |
| <input checked="" type="checkbox"/> | AGC-ER-A004   | Power splitter               | Agilent      | 1167B     | /          | 2025-05-08                | 2027-05-07                |
| <input checked="" type="checkbox"/> | N/A           | RF Connection Cable          | N/A          | 1#        | N/A        | Each time                 | N/A                       |
| <input checked="" type="checkbox"/> | N/A           | RF Connection Cable          | N/A          | 2#        | N/A        | Each time                 | N/A                       |

| ● Radiated Spurious Emission        |               |                               |              |            |            |                           |                           |
|-------------------------------------|---------------|-------------------------------|--------------|------------|------------|---------------------------|---------------------------|
| 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-EM-E046   | EMI Test Receiver             | R&S          | ESCI       | 100096     | 2026-01-13                | 2027-01-12                |
| <input checked="" type="checkbox"/> | AGC-EM-E061   | Spectrum Analyzer             | Agilent      | N9010A     | MY53470504 | 2025-05-08                | 2026-05-07                |
| <input checked="" type="checkbox"/> | AGC-EM-E001   | Wideband Antenna              | SCHWARZBECK  | VULB9168   | D69250     | 2025-03-14                | 2027-03-13                |
| <input checked="" type="checkbox"/> | AGC-EM-E029   | Broadband Ridged Horn Antenna | ETS          | 3117       | 00034609   | 2025-03-27                | 2026-03-26                |
| <input checked="" type="checkbox"/> | AGC-EM-E146   | Pre-amplifier                 | ETS          | 3117-PA    | 00246148   | 2024-08-03                | 2026-07-23                |
| <input checked="" type="checkbox"/> | AGC-EM-A088   | UHF Filter                    | N/A          | N/A        | N/A        | 2025-05-16                | 2026-05-15                |
| <input checked="" type="checkbox"/> | AGC-EM-A138   | 6dB Attenuator                | Eeatsheep    | LM-XX-6-5W | N/A        | 2025-05-16                | 2027-05-15                |

| ● Test Software                     |               |                 |              |                      |                     |
|-------------------------------------|---------------|-----------------|--------------|----------------------|---------------------|
| Used                                | Equipment No. | Test Equipment  | Manufacturer | Model No.            | Version Information |
| <input checked="" type="checkbox"/> | AGC-EM-S011   | RSE Test System | Tonscend     | TS+-Ver2.1(JS36-RSE) | 4.0.0.0             |

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## 5. ETSI EN 300 330 Requirements for Transmitter and Receiver

### 5.1 Operating Frequency Ranges and Permitted Range of Operating Frequencies

The operating frequency range (OFR) is the frequency range over which the EUT is transmitting. The operating frequency range of the EUT is determined by the lowest ( $f_L$ ) and highest frequency ( $f_H$ ) as occupied by the power envelope. With the center frequency of the OFR as:  $f_C = (f_H + f_L)/2$ . An EUT could have more than one operating frequency range.

#### Test Limit

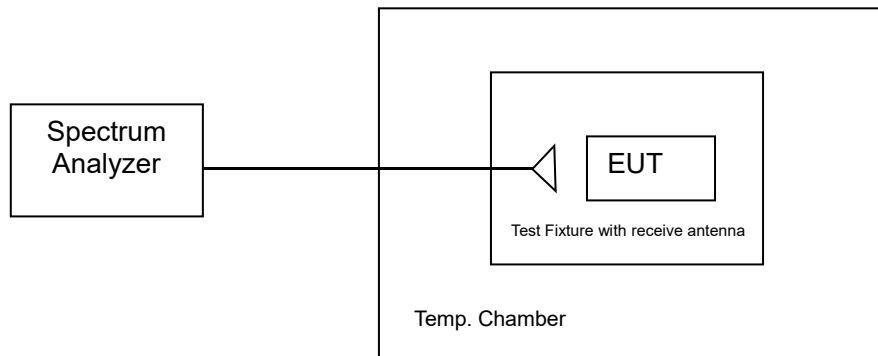
Table 1: Short Range Devices within the 9 kHz to 30 MHz permitted frequency bands

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Frequency Bands/frequencies                                     | Applications                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------|
| Transmit and Receive                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9 kHz to 90 kHz                                                 | Inductive devices, Generic use          |
| Transmit and Receive                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 90 kHz to 119 kHz                                               | Inductive devices, Generic use          |
| Transmit and Receive                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 119 kHz to 140 kHz                                              | Inductive devices, Generic use          |
| Transmit and Receive                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 140 kHz to 148,5 kHz                                            | Inductive devices, Generic use          |
| Transmit and Receive                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 148,5 kHz to 5 MHz                                              | Inductive devices, Generic use          |
| Transmit and Receive                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 400 kHz to 600 kHz                                              | RFID only                               |
| Transmit and Receive                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5 MHz to 30 MHz                                                 | Inductive devices, Generic use          |
| Transmit and Receive                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3 155 kHz to 3 400 kHz                                          | Inductive devices, Generic use          |
| Transmit and Receive                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 984 kHz to 7 484 kHz<br>(Note 3, Centre frequency is 4 234 kHz) | Inductive devices, Railway applications |
| Transmit and Receive                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4 516 kHz                                                       | Inductive devices, Railway applications |
| Transmit and Receive                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 765 kHz to 6 795 kHz                                          | Inductive devices, Generic use          |
| Transmit and Receive                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7 400 kHz to 8 800 kHz                                          | Inductive devices, Generic use          |
| Transmit and Receive                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10 200 kHz to 11,000 MHz                                        | Inductive devices, Generic use          |
| Transmit and Receive                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 11,810 MHz to 15,310 MHz<br>(Centre frequency is 13,56 MHz)     | RFID only                               |
| Transmit and Receive                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12,5 MHz to 20 MHz                                              | Inductive devices, Wireless healthcare  |
| Transmit and Receive                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 13,553 MHz to 13,567 MHz                                        | Inductive devices, Generic use          |
| Transmit and Receive                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 26,957 MHz to 27,283 MHz                                        | Inductive devices, Generic use          |
| Transmit and Receive                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 27,090 MHz to 27,100 MHz                                        | Inductive devices, Railway applications |
| NOTE 1: In addition, it should be noted that other frequency bands may be available in a country within the frequency range 9 kHz to 30 MHz.                                                                                                                                                                                                                                                                                                                                                   |                                                                 |                                         |
| NOTE 2: On non-harmonised parameters, national administrations may impose certain conditions such as the type of modulation, frequency, channel/frequency separations, maximum transmitter radiated power, duty cycle, and the inclusion of an automatic transmitter shut-off facility, as a condition for the issue of an Individual Rights for use of spectrum or General Authorization, or as a condition for use under "licence exemption" as it is in most cases for Short Range Devices. |                                                                 |                                         |
| NOTE 3: Transmitting only on receipt of a Balise/Eurobalise tele-powering signal from a train.                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                 |                                         |

The frequency ranges and limits of the present document are based on the European Commission Decision for SRDs [i.10], CEPT/ERC/REC 70-03 [i.1].

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## Test Setup



## Test Procedure

1. Please refer to ETSI EN 300 330 (V2.1.1) Sub-clause 5.5 and Sub-clause 5.6 for the test conditions.
2. Please refer to ETSI EN 300 330 (V2.1.1) Sub-clause 6.2.2 for the measurement method.

## Test Result

| Test Conditions    |                     |                | 99%<br>Bandwidth<br>(kHz) | FL at<br>99% BW<br>(kHz) | FH at<br>99% BW<br>(kHz) | Limit Band    | Result |
|--------------------|---------------------|----------------|---------------------------|--------------------------|--------------------------|---------------|--------|
| Frequency<br>(kHz) | Temperature<br>(°C) | Voltage<br>(V) |                           |                          |                          |               |        |
| 326                | 25                  | 9.00           | 0.703                     | 325.649                  | 326.352                  | 148.5KHz~5MHz | Pass   |
|                    | 0                   | 9.90           | 0.706                     | 325.647                  | 326.353                  |               | Pass   |
|                    |                     | 8.00           | 0.703                     | 325.649                  | 326.352                  |               | Pass   |
|                    | 40                  | 9.90           | 0.702                     | 325.649                  | 326.351                  |               | Pass   |
|                    |                     | 8.00           | 0.701                     | 325.650                  | 326.351                  |               | Pass   |

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## 5.2 Transmitter H-Field Requirements

In the case of a transmitter with an integral or dedicated antenna, the radiated H-field is defined in the direction of maximum field strength under specified conditions of measurement.

### Test Limit

**Table 2: H-field limits at 10 m**

| Frequency range (MHz)                                     | H-field strength limit ( $H_f$ ) dB $\mu$ A/m at 10 m or specified in mW e.r.p.   |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------|
| $0,009 \leq f < 0,090$                                    | 72 descending 3 dB/oct above 0,03 MHz or according to note 1 (see note 5)         |
| $0,09 \leq f < 0,119$                                     | 42                                                                                |
| $0,119 \leq f < 0,135$                                    | 66 descending 3 dB/oct above 0,119 MHz or according to note 1 (see notes 3 and 5) |
| $0,135 \leq f < 0,140$                                    | 42                                                                                |
| $0,140 \leq f < 0,1485$                                   | 37,7                                                                              |
| $0,1485 \leq f < 30$                                      | -5 (see note 4)                                                                   |
| $0,315 \leq f < 0,600$                                    | -5                                                                                |
| $3,155 \leq f < 3,400$                                    | 13,5                                                                              |
| 4,234                                                     | 9 (see note 9)                                                                    |
| 4,516                                                     | 7                                                                                 |
| $7,400 \leq f < 8,800$                                    | 9                                                                                 |
| $10,2 \leq f < 11,00$                                     | 9                                                                                 |
| $12,5 \leq f \leq 20$                                     | -7                                                                                |
| $6,765 \leq f \leq 6,795$                                 | 42 (see notes 3 and 7)                                                            |
| $26,957 \leq f \leq 27,283$                               | 42 (see note 3)                                                                   |
| $13,410 \leq f \leq 13,553$ , $13,567 \leq f \leq 13,710$ | 9 (see note 6)                                                                    |
| $13,110 \leq f \leq 13,410$ , $13,710 \leq f \leq 14,010$ | -3,5 (see note 6)                                                                 |
| $12,660 \leq f \leq 13,110$ , $14,010 \leq f \leq 14,460$ | -10 (see note 6)                                                                  |
| $11,810 \leq f \leq 12,660$ , $14,460 \leq f \leq 15,310$ | -16 (see note 6)                                                                  |
| $13,460 \leq f \leq 13,553$ , $13,567 \leq f \leq 13,660$ | 27 (see note 6)                                                                   |
| $13,360 \leq f \leq 13,460$ , $13,660 \leq f \leq 13,760$ | Linear transition from 27 to -3,5 (see note 6)                                    |
| $13,110 \leq f \leq 13,360$ , $13,760 \leq f \leq 14,010$ | -3,5 (see note 6)                                                                 |
| $12,660 \leq f \leq 13,110$ , $14,010 \leq f \leq 14,460$ | -5 (see note 6)                                                                   |
| $13,553 \leq f \leq 13,567$                               | 42 (see note 3) or 60 (see notes 2 and 3)                                         |
| 27,095                                                    | 42                                                                                |

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| Frequency range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | H-field strength limit ( $H_f$ ) dB $\mu$ A/m at 10 m or specified in mW e.r.p. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 26,995, 27,045, 27,095, 27,145, 27,195<br>(see note 8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 100 mW                                                                          |
| <p>NOTE 1: For the frequency ranges 9 kHz to 135 kHz, the following additional restrictions apply to limits above 42 dB<math>\mu</math>A/m:</p> <ul style="list-style-type: none"> <li>- for loop coil antennas with an area <math>\geq 0,16 \text{ m}^2</math> this table and table B.1 with the antenna limitations apply;</li> <li>- for loop coil antennas with an area between <math>0,05 \text{ m}^2</math> and <math>0,16 \text{ m}^2</math> table B.1 applies with a correction factor. The limit is: table value + <math>10 \times \log(\text{area}/0,16 \text{ m}^2)</math>;</li> <li>- for loop coil antennas with an area <math>&lt; 0,05 \text{ m}^2</math> the limit is 10 dB below table B.1.</li> </ul> <p>NOTE 2: For RFID (incl. NFC) and EAS applications only.</p> <p>NOTE 3: Spectrum mask limit, see annex I.</p> <p>NOTE 4: For further information see annex G.</p> <p>NOTE 5: Limit is 42 dB<math>\mu</math>A/m for the following spot frequencies:<br/>60 kHz <math>\pm</math> 250 Hz, 66,6 kHz <math>\pm</math> 750 Hz, 75 kHz <math>\pm</math> 250 Hz, 77,5 kHz <math>\pm</math> 250 Hz, and 129,1 kHz <math>\pm</math> 500 Hz.</p> <p>NOTE 6: Only in conjunction with spectrum mask, see annex I.</p> <p>NOTE 7: The frequency range 6,765 MHz - 6,795 MHz is not a harmonised ISM frequency band according article 5.138 of the ITU Radio Regulations [i.13].</p> <p>NOTE 8: Center frequencies for channelized systems by using <math>\leq 10</math> kHz bandwidth.</p> <p>NOTE 9: The limit is valid in the range 984 kHz - 7 484 kHz for Transmitting only on receipt of a Balise/Eurobalise tele-powering signal from a train.</p> |                                                                                 |

The H-field limit in dB $\mu$ A/m at 3 m,  $H_{3m}$ , is determined by the following equation:

$$H_{3m} = H_{10m} + C_3 \text{ (F.2)}$$

Where:  $H_{10m}$  is the H-field limit in dB $\mu$ A/m at 10 m distance according to the present document; and  $C_3$  is a conversion factor in dB determined from figure F.2.

The limit at 10 m ( $H_{10m}$ ) is -5 dB $\mu$ A/m.

For 0.326MHz:

Owing to the frequency EUT is 0.326MHz, so the  $C_3$  approach to 31.65dB.

Then the limit at 3m ( $H_{3m}$ ) =  $H_{10m} + C_3 = -5 + 31.65 = 26.65$  dB $\mu$ A/m.

The H Field Strength shall not exceed the values 97.65 dB $\mu$ A/m 3m Distance under normal test conditions.

- $E(\text{dB}\mu\text{V/m}) = \text{dB}\mu\text{A/m} + 51.5$ ;
- $\text{ERP}(\text{dBm}) = E(\text{dB}\mu\text{V/m}) + 20\lg(D) - 104.8$ , D is the measurement distance;
- $\text{ERP} = 10\lg P(\text{mW})$

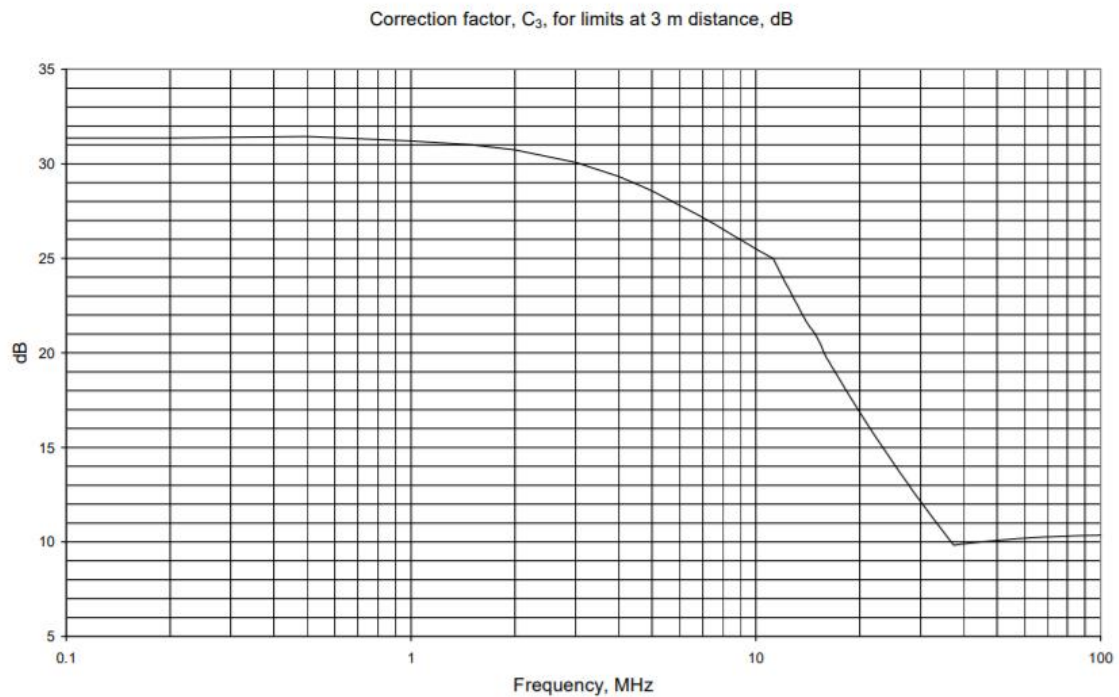
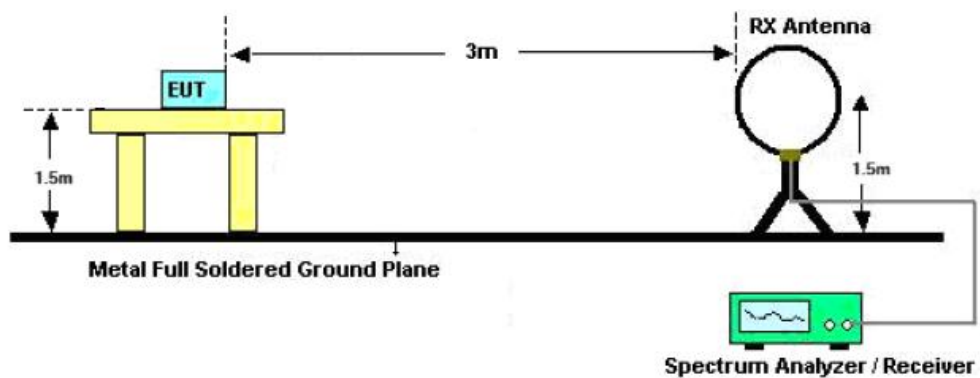


Figure H.2: Conversion factor  $C_3$  versus frequency

## Test Setup



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### Test Procedure

The EUT was placed on the top of an insulating table 1.5 meters above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

The H-field is measured with a shielded loop antenna connected to a measurement receiver.

The measuring bandwidth and detector type of the measurement receiver shall be in accordance with EN 300 330 V2.1.1 clause 5.12.

The EUT operate with modulation under normal and extreme conditions.

### Test Result

Test Mode: Transmitting

| Test conditions | Test Temp. | Test Volt. | Note       |
|-----------------|------------|------------|------------|
| TN/VN           | 25°C       | DC9.00V    | Worst case |
| TL/ VL          | 0°C        | DC 8.00V   | --         |
| TH/ML           | 40°C       | DC 8.00V   | --         |
| TL/VH           | 0°C        | DC 9.90V   | --         |
| TH/VH           | 40°C       | DC 9.90V   | --         |

| Frequency (kHz) | Reading (dB $\mu$ V/m) | Corrected Factor (dB) | Field Strength at 3m (dB $\mu$ V/m) | Field Strength at 3m (dB $\mu$ A/m) | Calculated at 10m (dB $\mu$ A/m) | Limit at 10m (dB $\mu$ A/m) | Result |
|-----------------|------------------------|-----------------------|-------------------------------------|-------------------------------------|----------------------------------|-----------------------------|--------|
| 326             | 33.68                  | 28.74                 | 62.42                               | 10.92                               | -15.73                           | -5                          | Pass   |

Remark:

- E-Field Strength(dB $\mu$ V/m) = Reading Level + Corrected Factor
  - For the calculated method, please refer to Annex H at EN 300 330.
  - All extreme conditions were considered for test, but only record the worst case.
- EIRP(dBm)= E-Field Strength(dB $\mu$ V/m)+20lg(D)-104.8, D is the measurement distance.  
E-Field Strength(dB $\mu$ V/m)=H-Field Strength(dB $\mu$ A/m)+51.5, so the dB $\mu$ A/m=EIRP(dBm)+43.7,  
EIRP=10lgP(mW)

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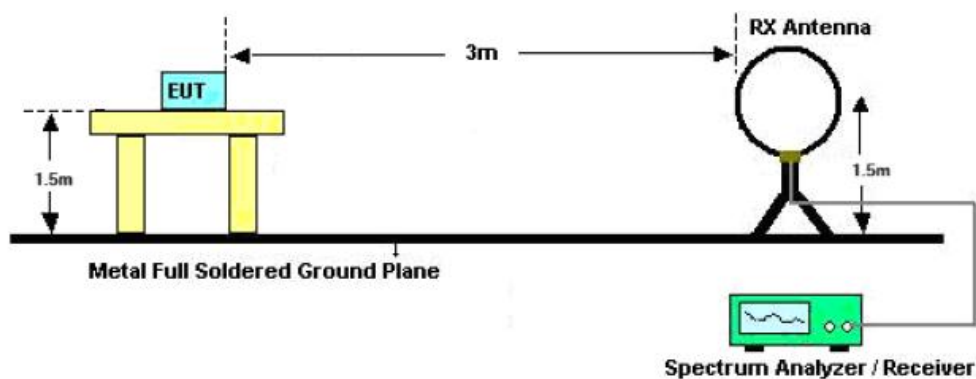
### 5.3 Transmitter Radiated Spurious Domain Emission (Limit<30MHz)

Spurious domain emission limits are limits on emissions at frequencies other than those of the carrier and sidebands associated (clauses 4.3.2 and 4.3.3) with normal test modulation (clause 5.8).

#### Test Limit

| Operating Mode                           |          |                                              |
|------------------------------------------|----------|----------------------------------------------|
| Frequency Range                          | Distance | Maximum Field Strength Limit                 |
| $9 \text{ kHz} \leq f < 10 \text{ MHz}$  | 10m      | 27dB $\mu$ A/m at 9 kHz descending 3 dB/oct  |
| $10 \text{ MHz} \leq f < 30 \text{ MHz}$ | 10m      | -3.5 dB $\mu$ A/m                            |
| Stand-by Mode                            |          |                                              |
| $9 \text{ kHz} \leq f < 10 \text{ MHz}$  | 10m      | 5.5dB $\mu$ A/m at 9 kHz descending 3 dB/oct |
| $10 \text{ MHz} \leq f < 30 \text{ MHz}$ | 10m      | -25 dB $\mu$ A/m                             |

#### Test Setup



#### Test Procedure

For test method of frequency range (9 kHz-30MHz)

The EUT was placed on the top of an insulating table 1.5 meters above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

The H-field is measured with a shielded loop antenna connected to a measurement receiver.

The measuring bandwidth and detector type of the measurement receiver shall be in accordance with EN 300 330 V2.1.1 clause 5.12

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## Test Result

Worst Case Operating Mode: Transmitter

| For 326KHz                 |                              |             |                                     |                                     |                                  |                             |             |
|----------------------------|------------------------------|-------------|-------------------------------------|-------------------------------------|----------------------------------|-----------------------------|-------------|
| Antenna Polarization: Face |                              |             |                                     |                                     |                                  |                             |             |
| Test Frequency (MHz)       | Reading Level (dB $\mu$ V/m) | Factor (dB) | Field Strength at 3m (dB $\mu$ V/m) | Field Strength at 3m (dB $\mu$ A/m) | Calculated at 10m (dB $\mu$ A/m) | Limit at 10m (dB $\mu$ A/m) | Margin (dB) |
| 0.2095                     | 31.26                        | 28.82       | 60.08                               | 8.58                                | -18.07                           | -3.5                        | -14.57      |
| 0.3083                     | 32.13                        | 28.75       | 60.88                               | 9.38                                | -17.27                           | -3.5                        | -13.77      |
| 0.3299                     | 33.51                        | 28.74       | 62.25                               | 10.75                               | -15.9                            | -3.5                        | -12.4       |

| Antenna Polarization: Side |                              |             |                                     |                                     |                                  |                             |             |
|----------------------------|------------------------------|-------------|-------------------------------------|-------------------------------------|----------------------------------|-----------------------------|-------------|
| Test Frequency (MHz)       | Reading Level (dB $\mu$ V/m) | Factor (dB) | Field Strength at 3m (dB $\mu$ V/m) | Field Strength at 3m (dB $\mu$ A/m) | Calculated at 10m (dB $\mu$ A/m) | Limit at 10m (dB $\mu$ A/m) | Margin (dB) |
| 0.2069                     | 31.85                        | 26.53       | 58.38                               | 6.88                                | -19.77                           | -3.5                        | -16.27      |
| 0.3172                     | 32.42                        | 26.21       | 58.63                               | 7.13                                | -19.52                           | -3.5                        | -16.02      |
| 0.3369                     | 32.14                        | 26.14       | 58.28                               | 6.78                                | -19.87                           | -3.5                        | -16.37      |

### Notes:

1. Negative sign (-) in the margin column signify levels below the limit.
2. Other emissions found were at least 10 dB below the limit.
3. E-Field Strength(dB $\mu$ V/m) = Reading Level + Factor
4. H-Field Strength(dB $\mu$ A/m)= E-Field Strength(dB $\mu$ V/m)-51.5dB

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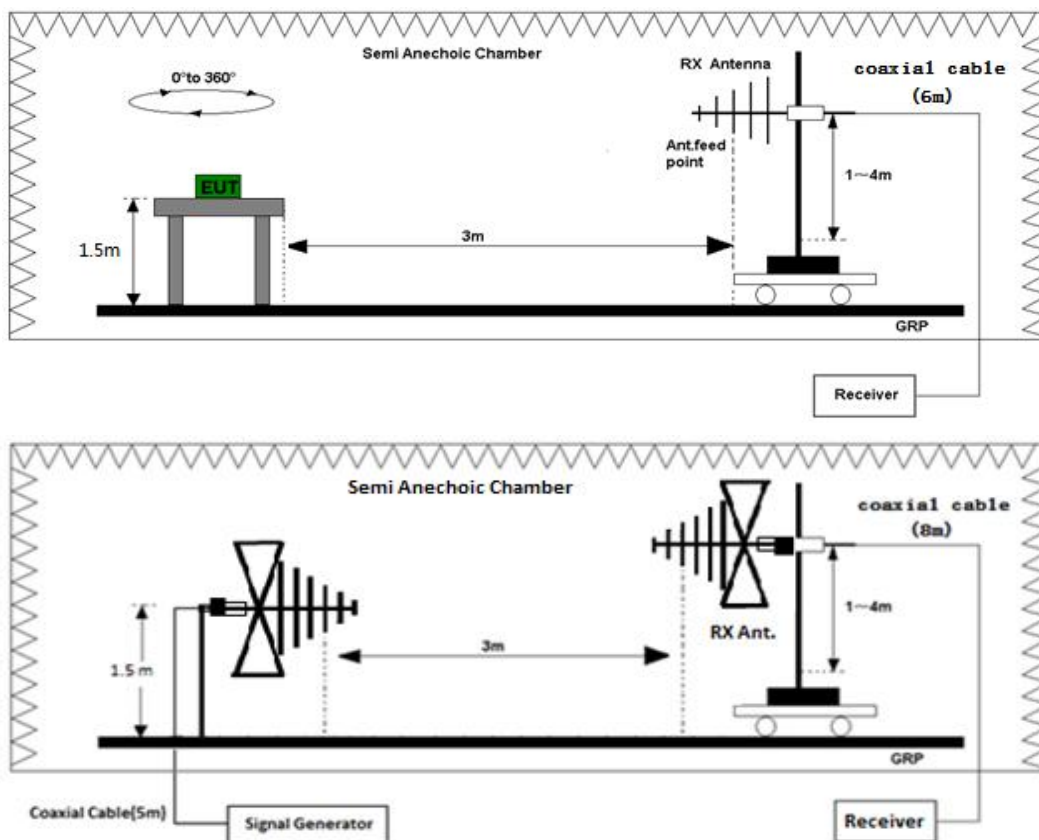
#### 5.4 Transmitter Radiated Spurious Domain Emission (Limit > 30MHz)

Spurious emissions are emissions at frequencies other than those of the carrier and sidebands associated with normal modulation.

##### Test Limit

| Frequency Range                            | Operating Mode Limit | Standby Mode Limit |
|--------------------------------------------|----------------------|--------------------|
| 47 MHz to 74 MHz                           | 4 nW                 | 2 nW               |
| 87.5 MHz to 118 MHz                        | 4 nW                 | 2 nW               |
| 174 MHz to 230 MHz                         | 4 nW                 | 2 nW               |
| 470 MHz to 790 MHz                         | 4 nW                 | 2 nW               |
| Other frequency between 30 MHz to 1000 MHz | 250 nW               | 2 nW               |

##### Test Setup



Radiated Emission Test Set-Up Frequency 30 MHz ~ 1 GHz

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### **Test Procedure**

For test method of frequency range (30 MHz-1000MHz)

EUT was placed on a 1.5m height wooden table. The search antenna is placed at 3m distances from the EUT and search antenna height is from 1-4m. With the transmitter operating at continuously mode, the turntable was slowly rotated to locate the direction of maximum emission. Once maximum direction is determined, the search antenna was raised and lowered in both vertical and horizontal polarizations.

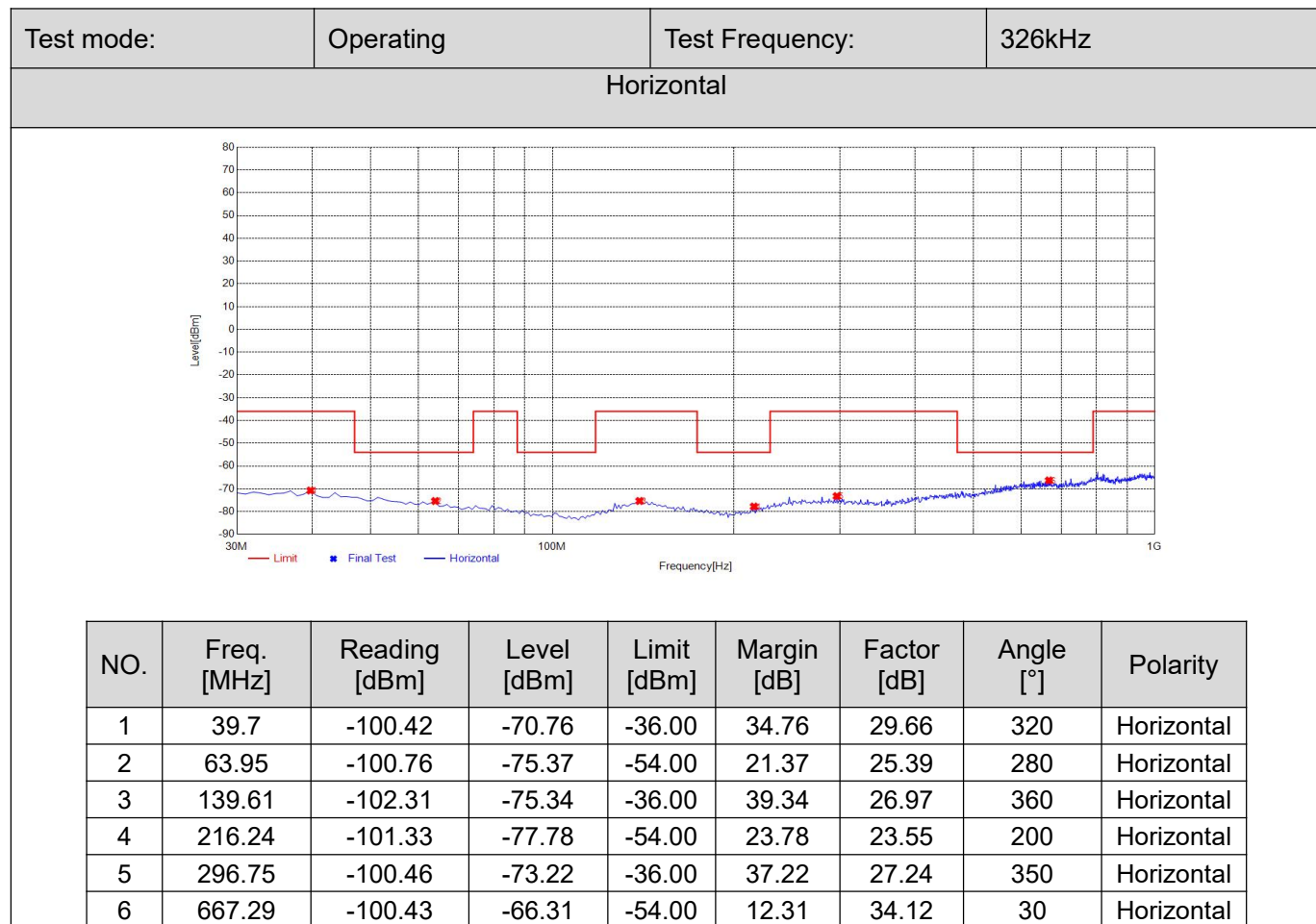
The EUT was removed from the turntable and replaced with a linearly polarized antenna connected to a calibrated RF signal generator. The RF generator was set to a measured emission frequency and the search antenna was raised and lowered to produce a maximum received reading. The generator output was increased to match the radiated emission reading measured previously, and the result expressed in dB EIRP or ERP, correcting for substitution antenna gain at each frequency.

Factor=Antenna Factor + Cable loss, Margin=Limit- Measurement Level.

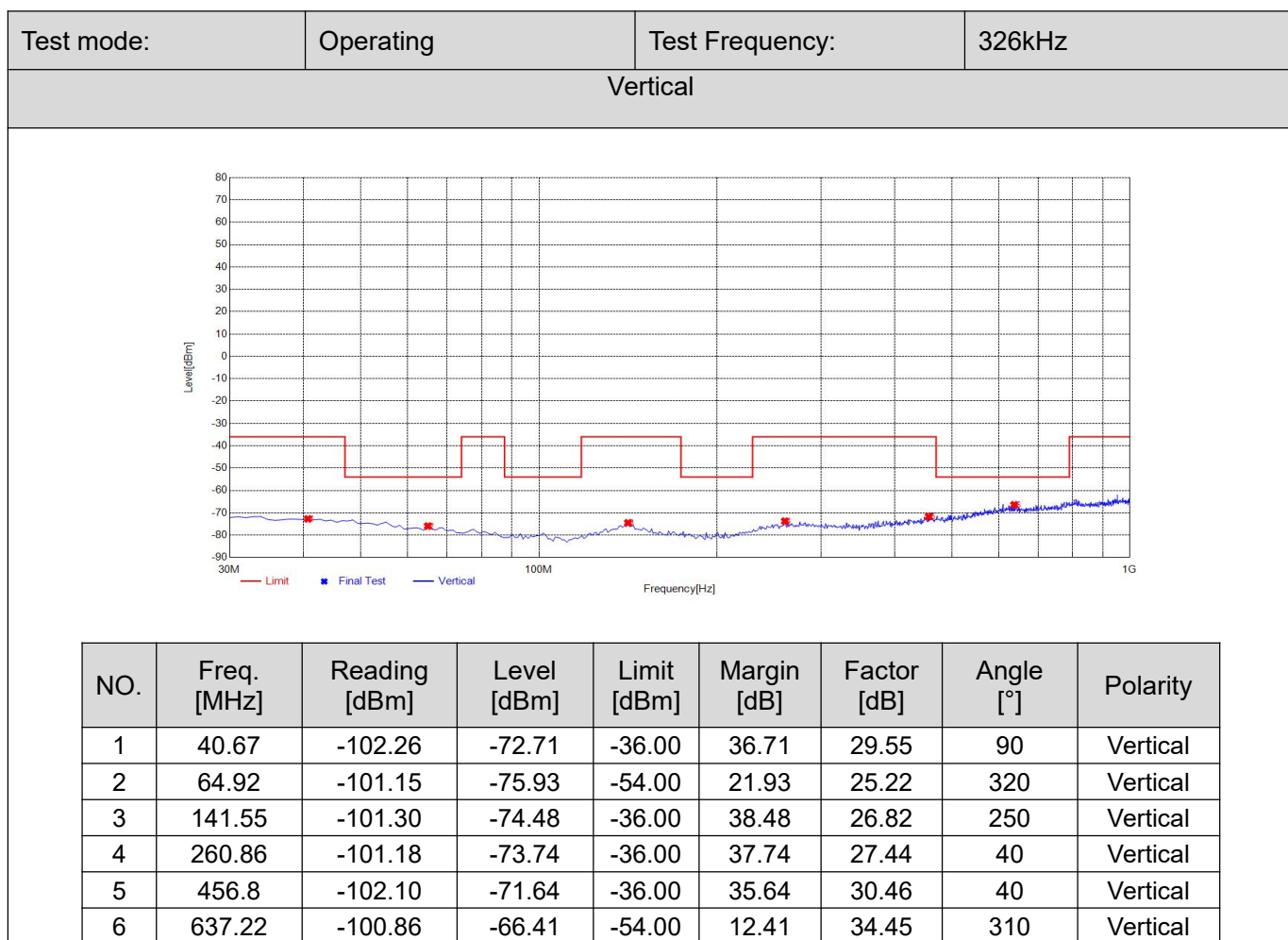
The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The worst case and recorded in the report.

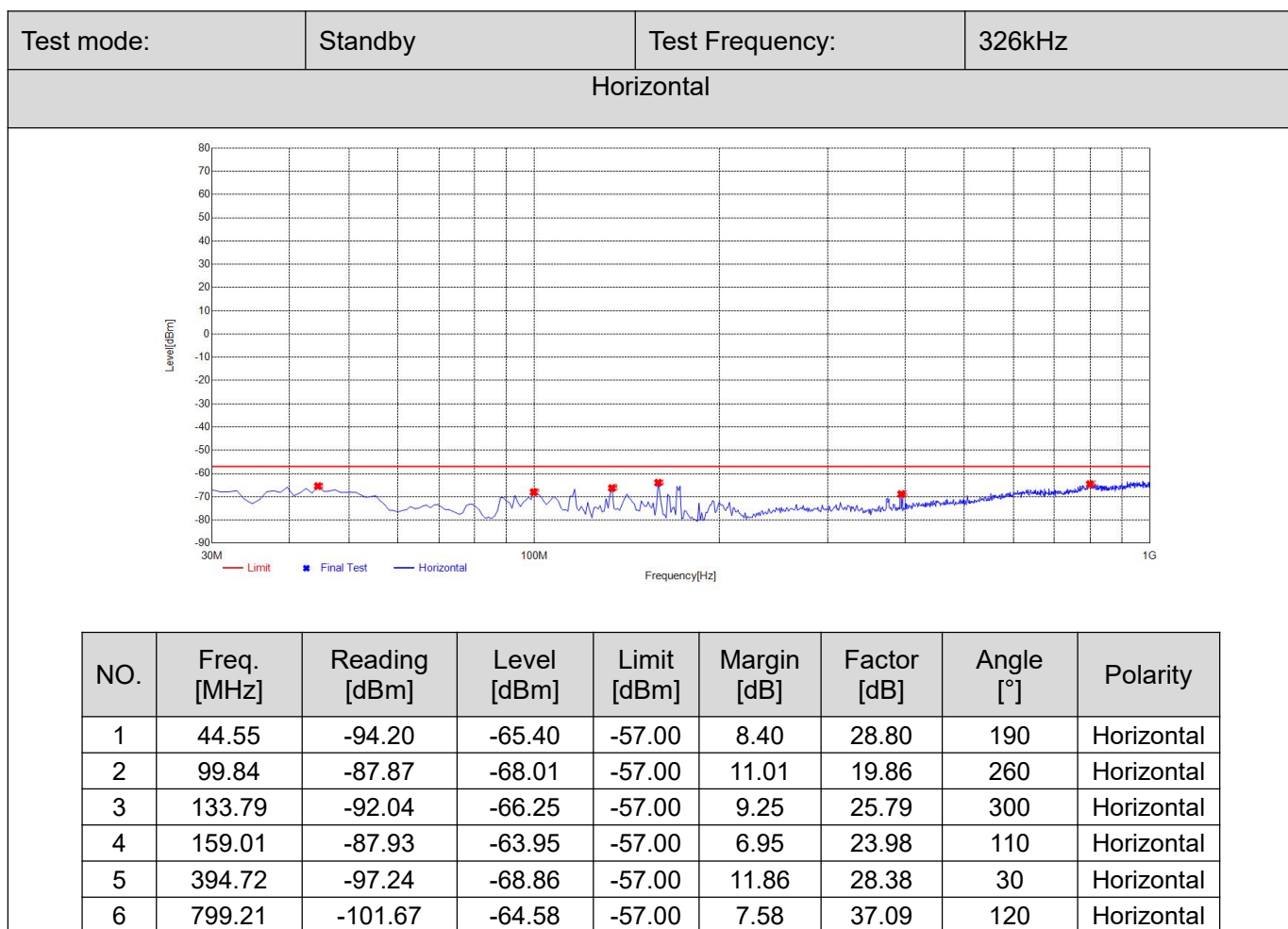
## Test Result



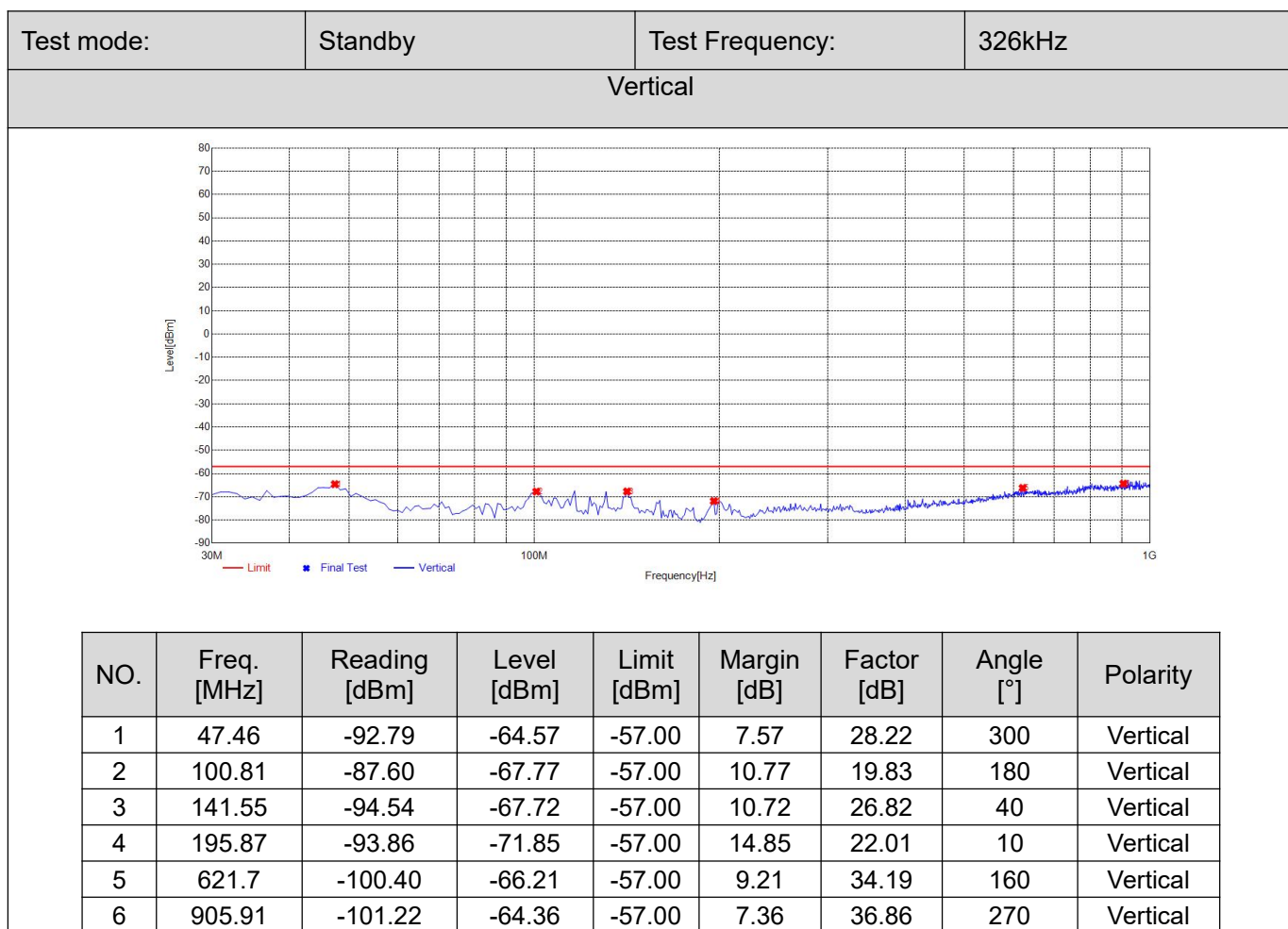
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## Appendix I: Photographs of Test Setup

### Radiated Spurious Emissions Below 30MHz Test Setup



### Radiated Spurious Emissions Below 1GHz Test Setup



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## **Appendix II: Photographs of Test EUT**

Refer to the Report No.: AGC05443260229AP01

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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.
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# Radio Test Report

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Report No.: AGC05443260229ER03

**PRODUCT DESIGNATION** : 3in1 foldable charging station  
**BRAND NAME** : N/A  
**MODEL NAME** : M02521  
**APPLICANT** : MID OCEAN BRANDS B.V.  
**DATE OF ISSUE** : Apr. 01, 2026  
**STANDARD(S)** : ETSI EN 303 417 V1.1.1 (2017-09)  
**REPORT VERSION** : V1.0

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**Report Revise Record**

| Report Version | Revise Time | Issued Date   | Valid Version | Notes           |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0           | /           | Apr. 01, 2026 | Valid         | Initial Release |

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## 1. General Information

|                              |                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------|
| Applicant                    | MID OCEAN BRANDS B.V.                                                                |
| Address                      | Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong. |
| Manufacturer                 | MID OCEAN BRANDS B.V.                                                                |
| Address                      | Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong. |
| Factory                      | MID OCEAN BRANDS B.V.                                                                |
| Address                      | Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong. |
| Product Designation          | 3in1 foldable charging station                                                       |
| Brand Name                   | N/A                                                                                  |
| Test Model                   | MO2521                                                                               |
| Series Model(s)              | N/A                                                                                  |
| Difference Description       | N/A                                                                                  |
| Date of receipt of test item | Feb. 26, 2026                                                                        |
| Date of Test                 | Feb. 26, 2026 to Apr. 01, 2026                                                       |
| Deviation from Standard      | No any deviation from the test method                                                |
| Condition of Test Sample     | Normal                                                                               |
| Test Result                  | Pass                                                                                 |
| Test Report Form No          | AGCER-EU-WPT-V1                                                                      |

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

Prepared By

*Jasiel Xie*

Jasiel Xie  
(Project Engineer)

Apr. 01, 2026

Reviewed By

*Bibo Zhang*

Bibo Zhang  
(Reviewer)

Apr. 01, 2026

Approved By

*Angela Li*

Angela Li  
(Authorized Officer)

Apr. 01, 2026

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## 2. Product Information

### 2.1 Product Technical Description

|                                        |                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------|
| Equipment Type                         | WPT System                                                                           |
| Permitted Range of Operating Frequency | <input type="checkbox"/> WPT Band 1: 19~21kHz                                        |
|                                        | <input type="checkbox"/> WPT Band 2: 59~61kHz                                        |
|                                        | <input type="checkbox"/> WPT Band 3: 79~90kHz                                        |
|                                        | <input checked="" type="checkbox"/> WPT Band 4: 100~119kHz, 119~140kHz, 140~148.5kHz |
|                                        | <input checked="" type="checkbox"/> WPT Band 4: 148.5~300kHz                         |
|                                        | <input type="checkbox"/> WPT Band 5: 6765kHz~6795kHz                                 |
| Operation Frequency                    | 110.5kHz-205kHz ( Earphone)                                                          |
| Hardware Version                       | V1.0                                                                                 |
| Software Version                       | V1.0                                                                                 |
| Modulation Type                        | ASK                                                                                  |
| Corrected Amplitude H-field@10m        | -16.88dB $\mu$ A/m@10m (Max.)                                                        |
| Antenna Designation                    | Coil Antenna                                                                         |
| Input Rating                           | DC 5V/2A, 9V/2A, 9V/3A by Adapter                                                    |
| Output Rating                          | Wireless Output for Earphone: 3W Max.                                                |

**Note:** For more details, refer to the user's manual of the EUT.

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## 2.2 Objective

Perform Radio Spectrum tests for CE Marking according to the provisions of article 3.2 of the Radio Equipment Directive (2014/53/EU) for the WPT function of the EUT.

## 2.3 Test Items and The Results

The tests were performed according to following standards:

|                                     |                                                                                                                                                                                                                                                            |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ETSI EN 303 417 V1.1.1<br>(2017-09) | Wireless power transmission systems, using technologies other than radio frequency beam in the 19-21kHz,59-61kHz,79-90kHz,100-300 kHz, 6765-6795kHz ranges; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Test items and the results are as bellow:

| No.                                 | Test Item                                | Standard Require | Condition                                                                                                             | Result |
|-------------------------------------|------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------|--------|
| Harmonised Standard ETSI EN 303 417 |                                          |                  |                                                                                                                       |        |
| 1                                   | Permitted range of Operating Frequencies | sub-clause 4.3.2 | /                                                                                                                     | Pass   |
| 2                                   | Operating Frequency Ranges               | sub-clause 4.3.3 | /                                                                                                                     | Pass   |
| 3                                   | H-field Requirements                     | sub-clause 4.3.4 | /                                                                                                                     | Pass   |
| 4                                   | Transmitter Spurious Emissions           | sub-clause 4.3.5 | /                                                                                                                     | Pass   |
| 5                                   | Transmitter Out of Band (OOB) Emissions  | sub-clause 4.3.6 | /                                                                                                                     | Pass   |
| 6                                   | WPT System Unwanted Conducted Emissions  | sub-clause 4.3.7 | Only for equipment which has a cable between the off board power supply and the primary coil which is longer than 3 m | N/A    |
| 7                                   | Receiver Blocking                        | sub-clause 4.4.2 | Only for Mode1, Mode2 and Mode3 (see Table 2)                                                                         | Pass   |

Note: N/A means not applicable. This equipment does not meet the above test item evaluation conditions, so it is not applicable.

## 2.3 Overview of Operational Modes within a WPT System

| EN 303 417 Clauses 4.2.3 Table 2: Overview of operational modes within a WPT system |                      |                          |                           |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------|----------------------|--------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operational Mode                                                                    | Set-up               | Function of base station | Function of mobile device | Test Scenario                                                                                                                                                                                                                                                                                                                            | Conformance Requirements                                                                                                                                                                                                                                   |
| Mode 1:<br>base station in stand-by, idle mode                                      | Single device        | TX                       | Not applicable            | Single radiation test (TX) with the base station/charging pad. The test set-up as described in clause 6.1.2 shall be used.                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>Operating frequency range (clause 4.3.3)</li> <li>H-Field emission (clause 4.3.4)</li> <li>TX spurious (clauses 4.3.5, 4.3.6 and 4.3.7)</li> <li>Performance criteria test (RX test) (clause 4.4)</li> </ul>        |
| Mode 2:<br>Communication before charging, adjustment charging mode / position       | In combination       | TX and RX                | TX and RX                 | Specific test setup, declared by the manufacturer. Manufacturer shall declare the maximal distance between base station and mobile device the WPT system is able to communicate (distance D). The test setup- up shall be performed with the largest communication distance. The test set-up as described in clause 6.1.3 shall be used. | <ul style="list-style-type: none"> <li>Operating frequency range (clause 4.3.3)</li> <li>H-Field emission (clause 4.3.4)</li> <li>TX spurious (clauses 4.3.5, 4.3.6 and 4.3.7)</li> <li>Wanted performance criteria test (RX test) (clause 4.4)</li> </ul> |
| Mode 3:<br>Communication                                                            | WPT system alignment | TX and RX                | TX and RX                 | <ul style="list-style-type: none"> <li>Worst case alignment</li> <li>Both tests can be performed within one set-up, worst-case alignment.</li> <li>The test set-up as described in clause 6.1.4 shall be used.</li> </ul>                                                                                                                | <ul style="list-style-type: none"> <li>Operating frequency range (clause 4.3.3)</li> <li>H-Field emission (clause 4.3.4)</li> <li>TX spurious (clauses 4.3.5, 4.3.6 and 4.3.7)</li> <li>Wanted Performance criteria test (RX test) (clause 4.4)</li> </ul> |
| Mode 4:<br>energy transmission                                                      | WPT system alignment | TX and RX                | TX and RX                 |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                            |

## 2.4 Description of Test Modes

| No. | Test Mode Description                                              | Test Channel |          |          |
|-----|--------------------------------------------------------------------|--------------|----------|----------|
|     |                                                                    | Lowest       | Middle   | Highest  |
| 1   | base station in stand-by, idle mode                                | /            |          |          |
| 2   | Communication before charging, adjustment charging mode / position | /            | /        | /        |
| 3   | Communication                                                      | 127.2kHz     |          |          |
| 4   | Energy transmission                                                | 115.2kHz     | 144.6kHz | 169.5kHz |

### Note:

- During the initial establishment of the charging mode (mode 2), no or very low emission occur (below the sensitivity level of the test set-up), so the mode 2 can be assumed as irrelevant for the test.
- Mode 1 is only for base station function equipment and is not taken into consideration
- Mode 3 and mode 4 have been performed within one set-up, worst-case alignment.
- The Communication frequency 127.2kHz corresponds to the maximum field strength.

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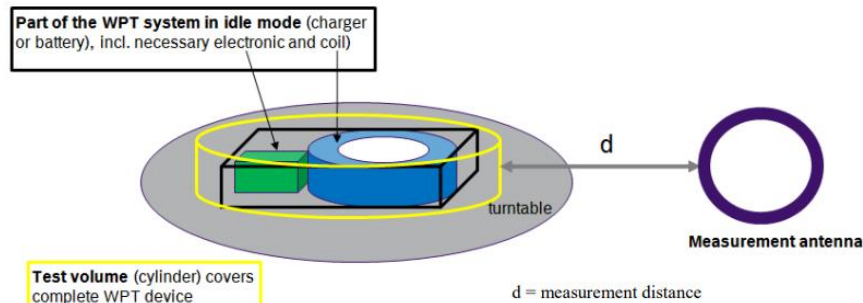
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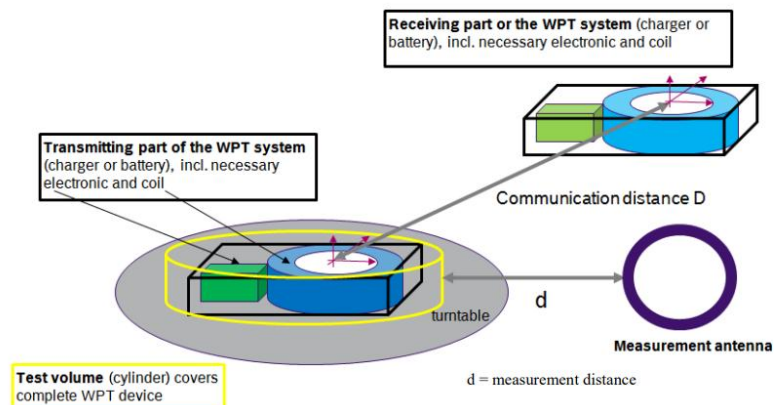
### 3. Setup of Equipment Under Test

#### 3.1 Setup Configuration of EUT

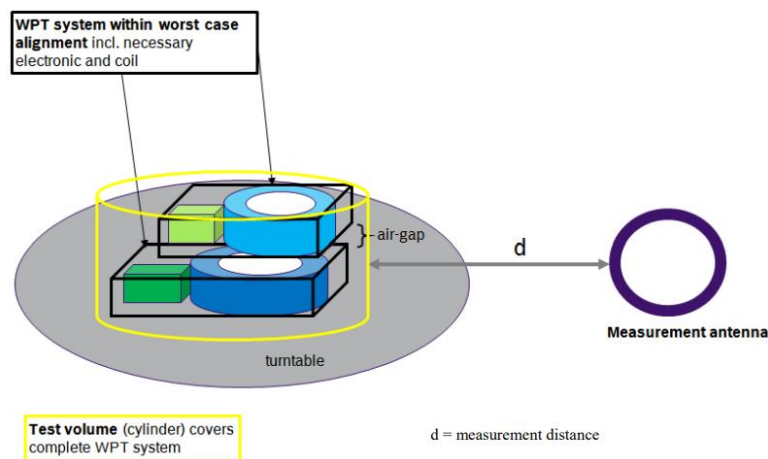
##### ◆ Mode 1: Idle Mode



##### ◆ Mode 2: Charging Adjustment



##### ◆ Mode 3 and Mode 4: Power Transmission Arrangement



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### 3.2 Support Equipment

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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

| Whether support unit is used? |                        |              |           |                               |
|-------------------------------|------------------------|--------------|-----------|-------------------------------|
| Yes                           |                        |              |           |                               |
| Item                          | Equipment              | Manufacturer | Model No. | Specification                 |
| 1                             | Wireless Charging Load | YBZ          | Q2        | Support 5W,7.5W,10W, 15W, 25W |

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## 4. Test Environment

### 4.1 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

### 4.2 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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#### 4.3 Environmental Conditions

|                   |                       |         |
|-------------------|-----------------------|---------|
| Normal Condition  | VN=nominal Voltage    | DC 9.0V |
|                   | TN=normal Temperature | 25 °C   |
| Extreme Condition | VL=lower Voltage      | DC 8.0V |
|                   | TL=lower Temperature  | 0 °C    |
|                   | VH=higher Voltage     | DC 9.9V |
|                   | TH=higher Temperature | 40 °C   |

Note: The maximum temperature of 40 is not a standard requirement and is measured according to the maximum service temperature stated by the manufacturer.

#### 4.4 Measurement Uncertainty

| Test Items                                                                                                           | Measurement Uncertainty       |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Frequency error                                                                                                      | $\pm 1 \times 10^{-7}$        |
| Transmitter power conducted                                                                                          | $\pm 0.75\text{dB}$           |
| Maximum Frequency Deviation:<br>Within 300Hz and 6KHz of Audio Frequency<br>Within 6KHz and 25KHz of Audio Frequency | $\pm 5\%$<br>$\pm 3\text{dB}$ |
| Adjacent channel power                                                                                               | $\pm 3\text{dB}$              |
| Conducted Emission of Transmitter, Valid Up to 12.75GHz                                                              | $\pm 4\text{dB}$              |
| Conducted Emissions of Receivers                                                                                     | $\pm 3\text{dB}$              |
| Radiated Emission of Transmitter, Valid Up to 12.75GHz                                                               | $\pm 6\text{dB}$              |

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=1.96$ .

#### 4.5 List of Equipment Used

| ● Radiated Spurious Emission        |               |                               |              |           |              |                           |                           |
|-------------------------------------|---------------|-------------------------------|--------------|-----------|--------------|---------------------------|---------------------------|
| 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-EM-E046   | EMI Test Receiver             | R&S          | ESCI      | 100096       | 2026-01-13                | 2027-01-12                |
| <input checked="" type="checkbox"/> | AGC-EM-E061   | Spectrum Analyzer             | Agilent      | N9010A    | MY53470504   | 2025-05-08                | 2026-05-07                |
| <input checked="" type="checkbox"/> | AGC-EM-E005   | Wideband Antenna              | SCHWARZBECK  | VULB9168  | VULB9168-494 | 2025-01-15                | 2027-01-14                |
| <input type="checkbox"/>            | AGC-EM-E146   | Pre-amplifier                 | ETS          | 3117-PA   | 00246148     | 2024-08-03                | 2026-07-23                |
| <input checked="" type="checkbox"/> | AGC-EM-E086   | Active loop antenna(9K-30MHz) | ZHINAN       | ZN30900C  | 18051        | 2026-01-14                | 2028-01-13                |
| <input checked="" type="checkbox"/> | AGC-EM-E017   | Power Amplifier               | AR           | 75A250    | 18464        | 2025-07-18                | 2026-07-17                |

| ● Test Software                     |               |                 |              |                      |                     |
|-------------------------------------|---------------|-----------------|--------------|----------------------|---------------------|
| Used                                | Equipment No. | Test Equipment  | Manufacturer | Model No.            | Version Information |
| <input checked="" type="checkbox"/> | AGC-EM-S011   | RSE Test System | Tonscend     | TS+-Ver2.1(JS36-RSE) | 4.0.0.0             |

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## 5. ETSI EN 303 417 Requirements for Transmitter and Receiver

### 5.1 Operating Frequency Ranges and Permitted Range of Operating Frequencies

#### Test Limit

The permitted range of operating frequency range(s) for intentional emissions shall be within 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz,

#### Test Description

- ◆ The operating frequency range is the frequency range over which the WPT system is intentionally transmitting (all operational modes, see clause 4.2.3, Table 2).
- ◆ The operating frequency range(s) of the WPT system are determined by the lowest ( $f_L$ ) and highest frequency ( $f_H$ ) as occupied by the power envelope.
- ◆ The WPT system could have more than one operating frequency range. For a single frequency systems the OFR is equal to the occupied bandwidth (OBW) of the WPT system.
- ◆ For multi-frequency systems the OFR is described in Figures 2 and 3.

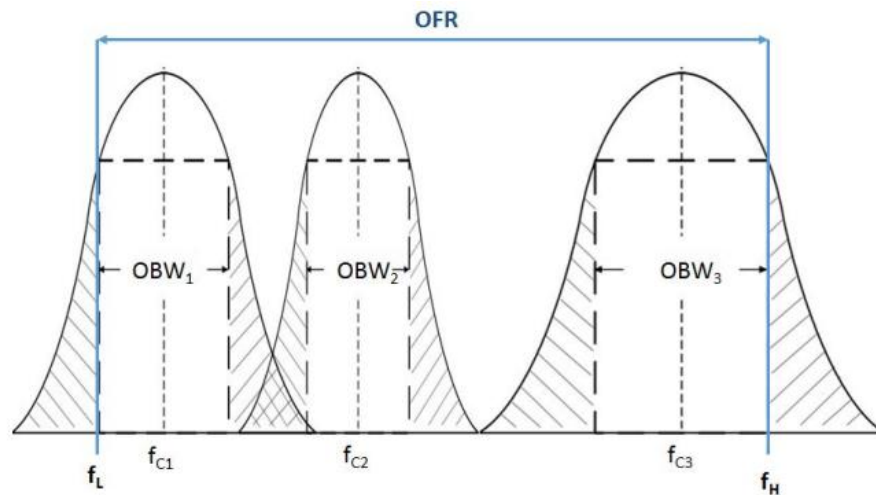


Figure 2: OFR of a multi - frequency WPT system within one frequency range of Table 2 and within one WPT system cycle time

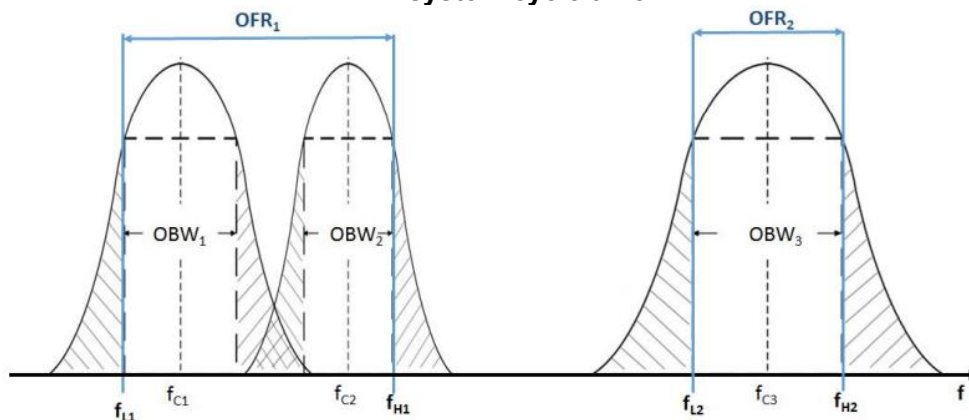
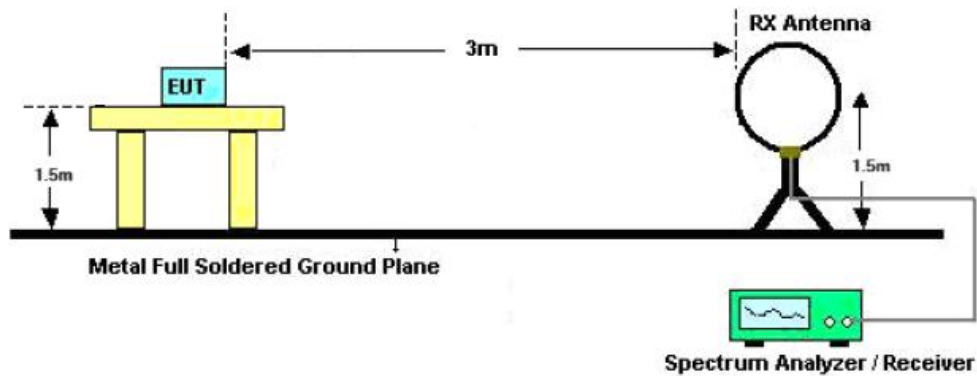


Figure 3: OFR of a multi - frequency WPT system within two frequency ranges of Table 2 and within one WPT system cycle time

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## Test Setup



## Test Procedure

1. The EUT was placed on a turn table which is 1.5m above ground plane.
2. The EUT was modulated by normal signal,
3. Set SPA Center Frequency = fundamental frequency, RBW=VBW=200Hz, Span=5kHz, Detector=RMS.  
The 99 % OBW function shall be used to determine the operating frequency range,  $f_H$  is the frequency of the upper marker resulting from the OFR,  $f_L$  is the frequency of the lower marker resulting from the OFR.
4. Both normal test condition and extreme test condition applied

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## Test Result

☒ Test Mode: Mode 3

| Frequency (kHz) | Test Conditions  |             | 99% Bandwidth (kHz) | F <sub>L</sub> at 99% BW (kHz) | F <sub>H</sub> at 99% BW (kHz) | Limit Band (kHz) | Result |
|-----------------|------------------|-------------|---------------------|--------------------------------|--------------------------------|------------------|--------|
|                 | Temperature (°C) | Voltage (V) |                     |                                |                                |                  |        |
| 127.2           | 0                | 9.90        | 0.924               | 126.739                        | 127.663                        | 100~300          | Pass   |
|                 |                  | 8.00        | 0.918               | 126.740                        | 127.658                        |                  | Pass   |
|                 | 25               | 9.00        | 0.928               | 126.736                        | 127.664                        |                  | Pass   |
|                 | 40               | 9.90        | 0.920               | 126.740                        | 127.660                        |                  | Pass   |
|                 |                  | 8.00        | 0.924               | 126.737                        | 127.661                        |                  | Pass   |

☒ Test Mode: Mode 4

| Frequency Range<br>(kHz) | Test Conditions     |                | Lower<br>Frequency<br>(kHz) | Upper<br>Frequency<br>(kHz) | Limit<br>Band<br>(kHz) |
|--------------------------|---------------------|----------------|-----------------------------|-----------------------------|------------------------|
|                          | Temperature<br>(°C) | Voltage<br>(V) |                             |                             |                        |
| 115.2-169.5              | 0                   | 9.90           | 114.736                     | 169.975                     | 100~300                |
|                          |                     | 8.00           | 114.740                     | 169.976                     |                        |
|                          | 25                  | 9.00           | 114.734                     | 169.979                     |                        |
|                          | 40                  | 9.90           | 114.738                     | 169.978                     |                        |
|                          |                     | 8.00           | 114.737                     | 169.977                     |                        |
| OFR                      | 55.246kHz           |                |                             |                             |                        |
| Result                   | Pass                |                |                             |                             |                        |

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## 5.2 Transmitter H-Field Requirements

### Test Limit

- The H-field limits are provided in Table 3.
- They have been specified for control of any radiated emissions within the OFR originating from the WPT system (power transmission and accompanying data communication).
- The H-field limits in Table 3 are EU wide harmonised according to EC Decision 2013/752/EU [i.2]. Further information is available in CEPT/ERC/REC 70-03 [i.1].

**Table 3: H-field limits**

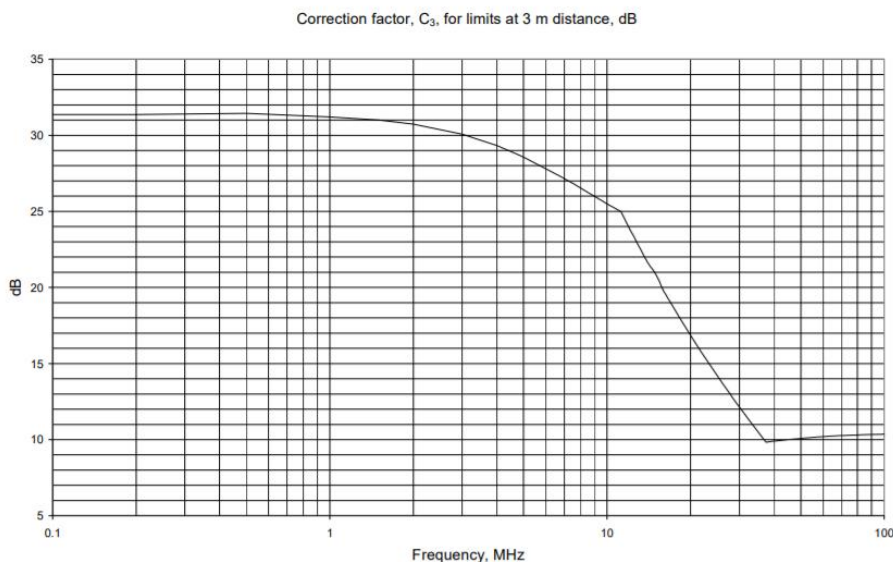
| Frequency range [MHz]   | H-field strength limit [dBμA/m at 10 m]   | Comments   |
|-------------------------|-------------------------------------------|------------|
| $0,019 \leq f < 0,021$  | 72                                        |            |
| $0,059 \leq f < 0,061$  | 69,1 descending 10 dB/dec above 0,059 MHz | See note 1 |
| $0,079 \leq f < 0,090$  | 67,8 descending 10 dB/dec above 0,079 MHz | See note 2 |
| $0,100 \leq f < 0,119$  | 42                                        |            |
| $0,119 \leq f < 0,135$  | 66 descending 10 dB/dec above 0,119 MHz   | See note 1 |
| $0,135 \leq f < 0,140$  | 42                                        |            |
| $0,140 \leq f < 0,1485$ | 37,7                                      |            |
| $0,1485 \leq f < 0,30$  | -5                                        |            |
| $6,765 \leq f < 6,795$  | 42                                        |            |

NOTE 1: Limit is 42 dBμA/m for the following spot frequencies: 60 kHz ± 250 Hz and 129,1 kHz ± 500 Hz.  
NOTE 2: At the time of preparation of the present document the feasibility of increased limits for high power wireless power transmission systems to charge vehicles [i.4] was prepared. New specific requirements for such systems (e.g. higher H-field emission limits in the 79 - 90 kHz band) will be reflected within a future revision of the present document.

- ◆ The H-field limit in dBμA/m at 3 m,  $H_{3m}$ , is determined by the following equation:

$$H_{3m} = H_{10m} + C_3 (F.2)$$

Where:  $H_{10m}$  is the H-field limit in dBμA/m at 10 m distance according to the present document; and  $C_3$  is a conversion factor in dB determined from figure F.2.

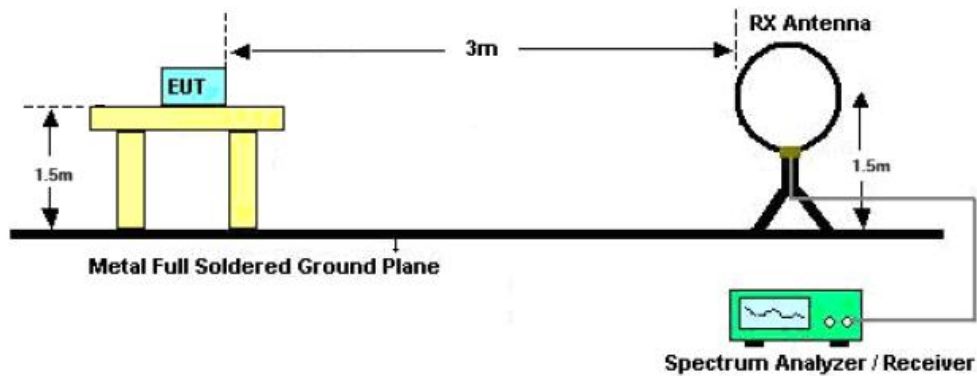


**Figure H.2: Conversion factor  $C_3$  versus frequency**

- $E(\text{dB}\mu\text{V/m}) = \text{dB}\mu\text{A/m} + 51.5$ ;
- $\text{ERP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\lg(D) - 104.8$ , D is the measurement distance;
- $\text{ERP} = 10\lg P(\text{mW})$

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## Test Setup



## Test Procedure

1. The EUT was placed on the top of an insulating table 1.5 meters above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The H-field is measured with a shielded loop antenna connected to a measurement receiver.
4. The measuring bandwidth and detector type of the measurement receiver shall be in accordance with EN 300 330 V2.1.1 clause 5.12.
5. The EUT operate with modulation under normal and extreme conditions.

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### Test Result

| Test conditions | Test Temp. | Test Volt. | Note       |
|-----------------|------------|------------|------------|
| TN/VN           | 25°C       | 9.00V      | Worst case |
| TL/ VL          | 0°C        | 8.00V      | --         |
| TH/ML           | 40°C       | 8.00V      | --         |
| TL/VH           | 0°C        | 9.90V      | --         |
| TH/VH           | 40°C       | 9.90V      | --         |

☒ Test Mode: Mode 3

| Frequency (kHz) | Reading (dBμA/m) | Factor (dB) | Field Strength (dBμV/m@3m) | Field Strength (dBμA/m@3m) | Calculated (dBμA/m@10m) | Limit at 10m (dBμA/m@10m) | Result |
|-----------------|------------------|-------------|----------------------------|----------------------------|-------------------------|---------------------------|--------|
| 127.2           | 39.51            | 26.31       | 65.82                      | 14.32                      | -16.88                  | 65.48                     | Pass   |

☒ Test Mode: Mode 4

| Frequency (kHz) | Reading (dBμA/m) | Factor (dB) | E-Field Strength (dBμV/m@3m) | H-Field Strength (dBμA/m@3m) | Calculated (dBμA/m@10m) | Limit at 10m (dBμA/m@10m) | Result |
|-----------------|------------------|-------------|------------------------------|------------------------------|-------------------------|---------------------------|--------|
| 115.2           | 30.21            | 26.31       | 56.52                        | 5.02                         | -26.18                  | 42.00                     | Pass   |
| 144.6           | 31.42            | 26.31       | 57.73                        | 6.23                         | -24.97                  | 37.70                     | Pass   |
| 169.5           | 30.33            | 26.31       | 56.64                        | 5.14                         | -26.06                  | -5.00                     | Pass   |

#### Remark:

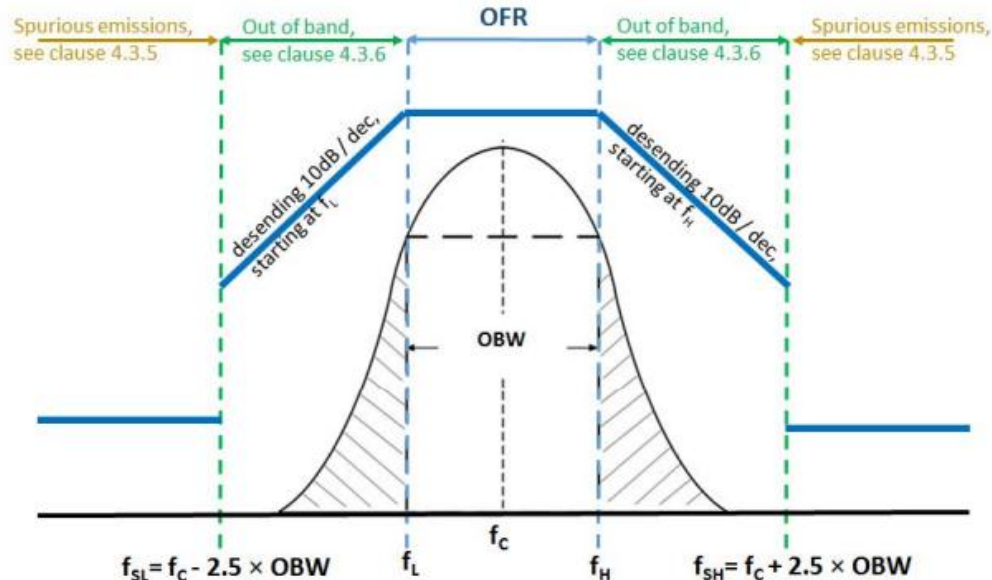
1. Field Strength at 3m(dBμA/m) = Reading Level + Corrected Factor
2. Calculated at 10m(dBμA/m) = Field Strength at 3m(dBμA/m)-31.2dB
3. For the calculated method, please refer to Annex F at EN 300330.

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### 5.3 Transmitter Out of Band (OOB) Emissions

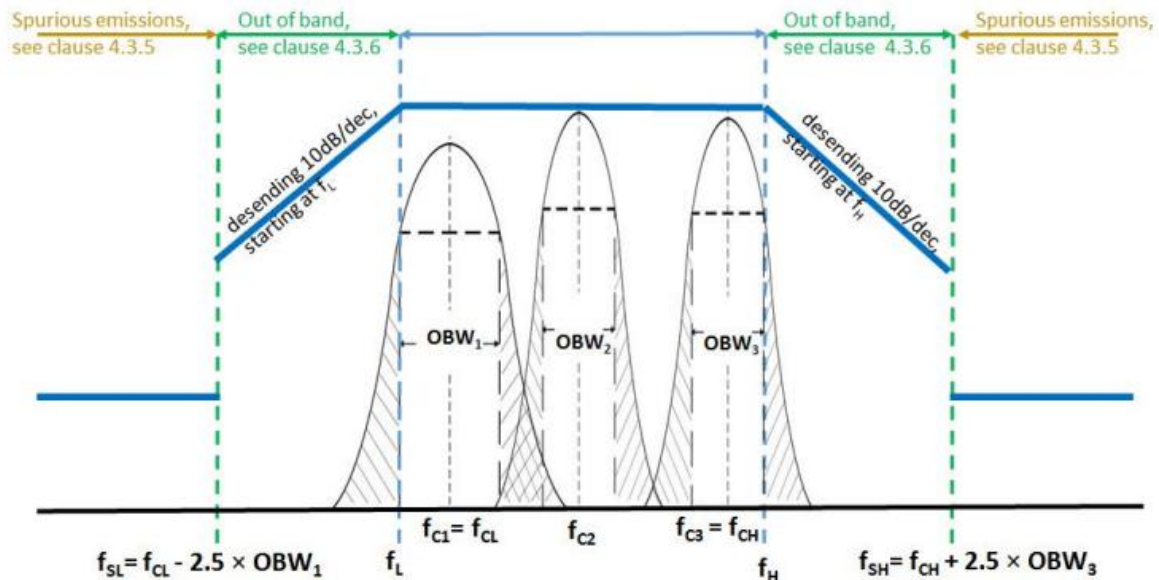
#### Test Limit

The OOB limits are visualized in Figures 4 and 5; they are descending from the intentional limits from Table 3 at  $f_H/f_L$  with 10 dB/decade.



**Figure 4: Out of band and spurious domain of a single frequency WPT system**

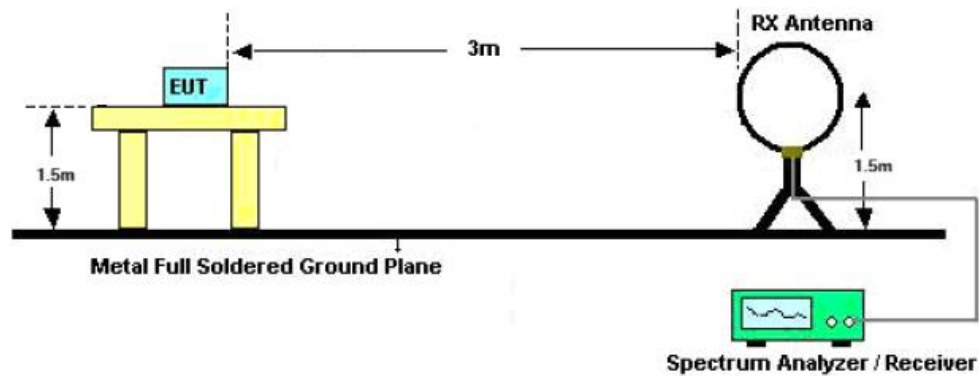
The transmitter spurious emissions for a multi frequency system (within one WPT frequency range from Table 2) are to be considered in frequency ranges defined in Figure 5 ( $f < f_{SL}$  and  $f > f_{SH}$ )



**Figure 5: Out of band and spurious domain of a multi - frequency system (during one WPT system cycle time)**

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### Test Setup



### Test Procedure

1. The EUT was placed on a turn table which is 1.5m above ground plane.
2. The EUT was modulated by normal signal,
3. Set SPA Center Frequency = fundamental frequency, RBW=VBW=200Hz, Span=5KHz, Detector=RMS.  
The 99 % OBW function shall be used to determine the operating frequency range,  $f_H$  is the frequency of the upper marker resulting from the OFR,  $f_L$  is the frequency of the lower marker resulting from the OFR.
4. Both normal test condition and extreme test condition applied

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Tel: +86-755 2523 4088 E-mail: [agc@agccert.com](mailto:agc@agccert.com) Web: <http://www.agccert.com/>

### Test Result

☒ Test Mode: Mode 3

| Test Frequency (kHz) | Frequency Range (kHz) |                  | Maximum level @10m (dBμA/m) | Limit @ 10m (dBμA/m) | Result |
|----------------------|-----------------------|------------------|-----------------------------|----------------------|--------|
| 127.2                | $f_{SL}-f_L$          | 124.88 - 126.736 | Less than -26.04            | See figure 4         | Pass   |
|                      | $f_L$                 | 126.736          | -26.04                      | 65.48                | Pass   |
|                      | $f_H$                 | 127.664          | -26.56                      | 65.48                | Pass   |
|                      | $f_H-f_{SH}$          | 127.664 - 129.52 | Less than -26.56            | See figure 4         | Pass   |

☒ Test Mode: Mode 4

| Test Frequency (kHz) | Frequency Range (kHz) |                   | Maximum level @10m (dBμA/m) | Limit @ 10m (dBμA/m) | Result |
|----------------------|-----------------------|-------------------|-----------------------------|----------------------|--------|
| 115.2-169.5          | $f_{SL}-f_L$          | 112.868 - 114.734 | Less than -35.34            | See figure 4         | Pass   |
|                      | $f_L$                 | 114.734           | -35.34                      | 42.00                | Pass   |
|                      | $f_H$                 | 169.979           | -35.74                      | -5.00                | Pass   |
|                      | $f_H-f_{SH}$          | 169.979 - 171.895 | Less than -35.74            | See figure 4         | Pass   |

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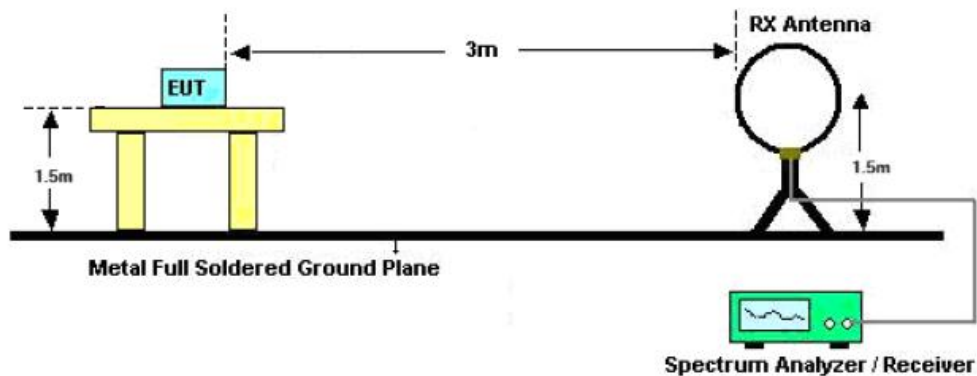
## 5.4 Transmitter Spurious Emissions (Frequency Below 30MHz)

### Test Limit

| Operating Mode                           |          |                                              |
|------------------------------------------|----------|----------------------------------------------|
| Frequency Range                          | Distance | Maximum Field Strength Limit                 |
| $9 \text{ kHz} \leq f < 10 \text{ MHz}$  | 10m      | 27dB $\mu$ A/m at 9 kHz descending 3 dB/oct  |
| $10 \text{ MHz} \leq f < 30 \text{ MHz}$ | 10m      | -3.5 dB $\mu$ A/m                            |
| Stand-by Mode                            |          |                                              |
| $9 \text{ kHz} \leq f < 10 \text{ MHz}$  | 10m      | 5.5dB $\mu$ A/m at 9 kHz descending 3 dB/oct |
| $10 \text{ MHz} \leq f < 30 \text{ MHz}$ | 10m      | -25 dB $\mu$ A/m                             |

Note: "Operating" means mode 2, 3 and 4 according to Table 2; "standby" means mode 1 according to Table 2.

### Test Setup



### Test Procedure

- ◆ For test method of frequency range (9 kHz-30MHz)
- 1. The EUT was placed on the top of an insulating table 1.5 meters above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3. The H-field is measured with a shielded loop antenna connected to a measurement receiver.
- 4. The measuring bandwidth and detector type of the measurement receiver shall be in accordance with EN 300 330 V2.1.1 clause 5.12

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### Test Result

☒ Test Mode: Mode 3 (Operating Mode: Face)

| Transmitter Spurious Emissions for 9kHz to 30MHz |                |               |                              |                               |                         |                    |             |
|--------------------------------------------------|----------------|---------------|------------------------------|-------------------------------|-------------------------|--------------------|-------------|
| Frequency (MHz)                                  | Reading (dBμV) | Factor (dB/m) | E-Field Strength@3m (dBμV/m) | E-Field Strength@10m (dBμV/m) | Calculated@10m (dBμA/m) | Limit@10m (dBμA/m) | Margin (dB) |
| 0.033                                            | 20.84          | 35.88         | 56.72                        | 46.26                         | -5.24                   | 21.31              | 24.41       |
| 0.354                                            | 17.61          | 33.13         | 50.74                        | 40.28                         | -11.22                  | 11.05              | 23.32       |
| 0.570                                            | 14.66          | 33.13         | 47.79                        | 37.33                         | -14.17                  | 8.99               | 23.10       |
| 1.915                                            | 14.43          | 25.45         | 39.88                        | 29.42                         | -22.08                  | 3.72               | 26.07       |
| 3.309                                            | 12.46          | 22.66         | 35.12                        | 24.66                         | -26.84                  | 1.35               | 27.91       |
| 5.309                                            | 11.26          | 18.56         | 29.82                        | 19.36                         | -32.14                  | -0.71              | 31.75       |

☒ Test Mode: Mode 3 (Operating Mode: Side)

| Transmitter Spurious Emissions for 9kHz to 30MHz |                |               |                              |                               |                         |                    |             |
|--------------------------------------------------|----------------|---------------|------------------------------|-------------------------------|-------------------------|--------------------|-------------|
| Frequency (MHz)                                  | Reading (dBμV) | Factor (dB/m) | E-Field Strength@3m (dBμV/m) | E-Field Strength@10m (dBμV/m) | Calculated@10m (dBμA/m) | Limit@10m (dBμA/m) | Margin (dB) |
| 0.033                                            | 20.80          | 35.88         | 56.68                        | 46.22                         | -5.28                   | 21.36              | 26.64       |
| 0.287                                            | 17.77          | 33.13         | 50.90                        | 40.44                         | -11.06                  | 11.97              | 23.03       |
| 0.644                                            | 14.77          | 33.13         | 47.90                        | 37.44                         | -14.06                  | 8.45               | 22.51       |
| 1.927                                            | 14.39          | 25.45         | 39.84                        | 29.38                         | -22.12                  | 3.69               | 25.81       |
| 2.849                                            | 12.61          | 22.66         | 35.27                        | 24.81                         | -26.69                  | 2.00               | 28.68       |
| 4.354                                            | 11.24          | 18.56         | 29.80                        | 19.34                         | -32.16                  | 0.15               | 32.31       |

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☒ Test Mode: Mode 4 (Operating Mode: Face), Lowest Channel Worst Case

| Transmitter Spurious Emissions for 9kHz to 30MHz |                |               |                              |                               |                         |                    |             |
|--------------------------------------------------|----------------|---------------|------------------------------|-------------------------------|-------------------------|--------------------|-------------|
| Frequency (MHz)                                  | Reading (dBμV) | Factor (dB/m) | E-Field Strength@3m (dBμV/m) | E-Field Strength@10m (dBμV/m) | Calculated@10m (dBμA/m) | Limit@10m (dBμA/m) | Margin (dB) |
| 0.101                                            | 20.70          | 35.88         | 56.58                        | 46.12                         | -5.38                   | 16.51              | 21.89       |
| 0.733                                            | 17.38          | 33.13         | 50.51                        | 40.05                         | -11.45                  | 7.89               | 19.34       |
| 0.482                                            | 14.69          | 33.13         | 47.82                        | 37.36                         | -14.14                  | 9.72               | 23.86       |
| 1.384                                            | 14.67          | 25.45         | 40.12                        | 29.66                         | -21.84                  | 5.13               | 26.97       |
| 3.445                                            | 12.39          | 22.66         | 35.05                        | 24.59                         | -26.91                  | 1.17               | 28.09       |
| 4.856                                            | 11.19          | 18.56         | 29.75                        | 19.29                         | -32.21                  | -0.32              | 31.89       |

☒ Test Mode: Mode 4 (Operating Mode: Side), Lowest Channel Worst Case

| Transmitter Spurious Emissions for 9kHz to 30MHz |                |               |                              |                               |                         |                    |             |
|--------------------------------------------------|----------------|---------------|------------------------------|-------------------------------|-------------------------|--------------------|-------------|
| Frequency (MHz)                                  | Reading (dBμV) | Factor (dB/m) | E-Field Strength@3m (dBμV/m) | E-Field Strength@10m (dBμV/m) | Calculated@10m (dBμA/m) | Limit@10m (dBμA/m) | Margin (dB) |
| 0.102                                            | 20.49          | 35.88         | 56.37                        | 45.91                         | -5.59                   | 16.46              | 22.05       |
| 0.722                                            | 17.78          | 33.13         | 50.91                        | 40.45                         | -11.05                  | 7.96               | 19.00       |
| 0.431                                            | 14.49          | 33.13         | 47.62                        | 37.16                         | -14.34                  | 10.20              | 24.53       |
| 1.390                                            | 14.78          | 25.45         | 40.23                        | 29.77                         | -21.73                  | 5.11               | 26.84       |
| 3.470                                            | 12.37          | 22.66         | 35.03                        | 24.57                         | -26.93                  | 1.14               | 28.07       |
| 6.443                                            | 11.23          | 18.56         | 29.79                        | 19.33                         | -32.17                  | -1.55              | 30.62       |

**Notes:**

1. Negative sign (-) in the margin column signify levels below the limit.
2. Other emissions found were at least 20 dB below the limit.
3. E-Field Strength@3m(dBμV/m) = Reading Level + Factor
4. E-Field Strength@10m(dBμV/m) = E-Field Strength@3m(dBμV/m)+10.46dB
5. H-Field Strength(dBμA/m)= E-Field Strength(dBμV/m)-51.5dB

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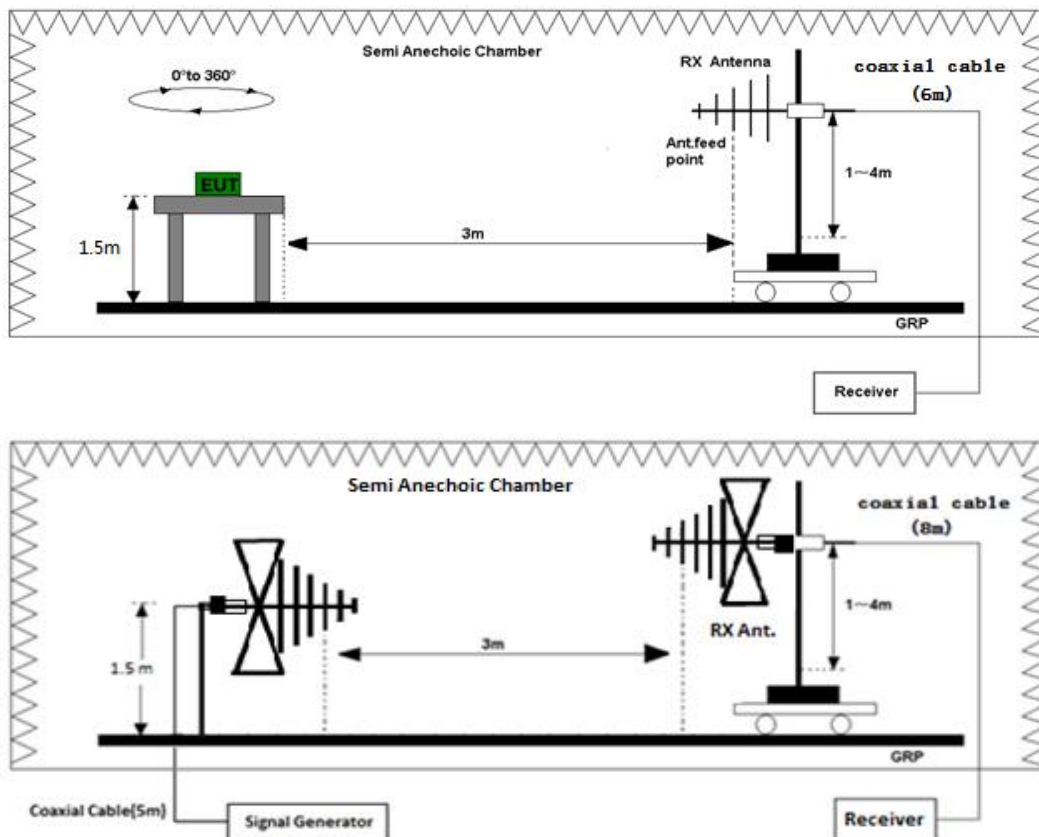
## 5.5 Transmitter Spurious Emissions (Frequency Above 30MHz)

Spurious emissions are emissions at frequencies other than those of the carrier and sidebands associated with normal modulation.

### Test Limit

| Frequency Range                            | Operating Mode Limit | Standby Mode Limit |
|--------------------------------------------|----------------------|--------------------|
| 47 MHz to 74 MHz                           | 4 nW                 | 2 nW               |
| 87.5 MHz to 118 MHz                        | 4 nW                 | 2 nW               |
| 174 MHz to 230 MHz                         | 4 nW                 | 2 nW               |
| 470 MHz to 790 MHz                         | 4 nW                 | 2 nW               |
| Other frequency between 30 MHz to 1000 MHz | 250 nW               | 2 nW               |

### Test Setup



Radiated Emission Test Set-Up Frequency 30 MHz ~ 1 GHz

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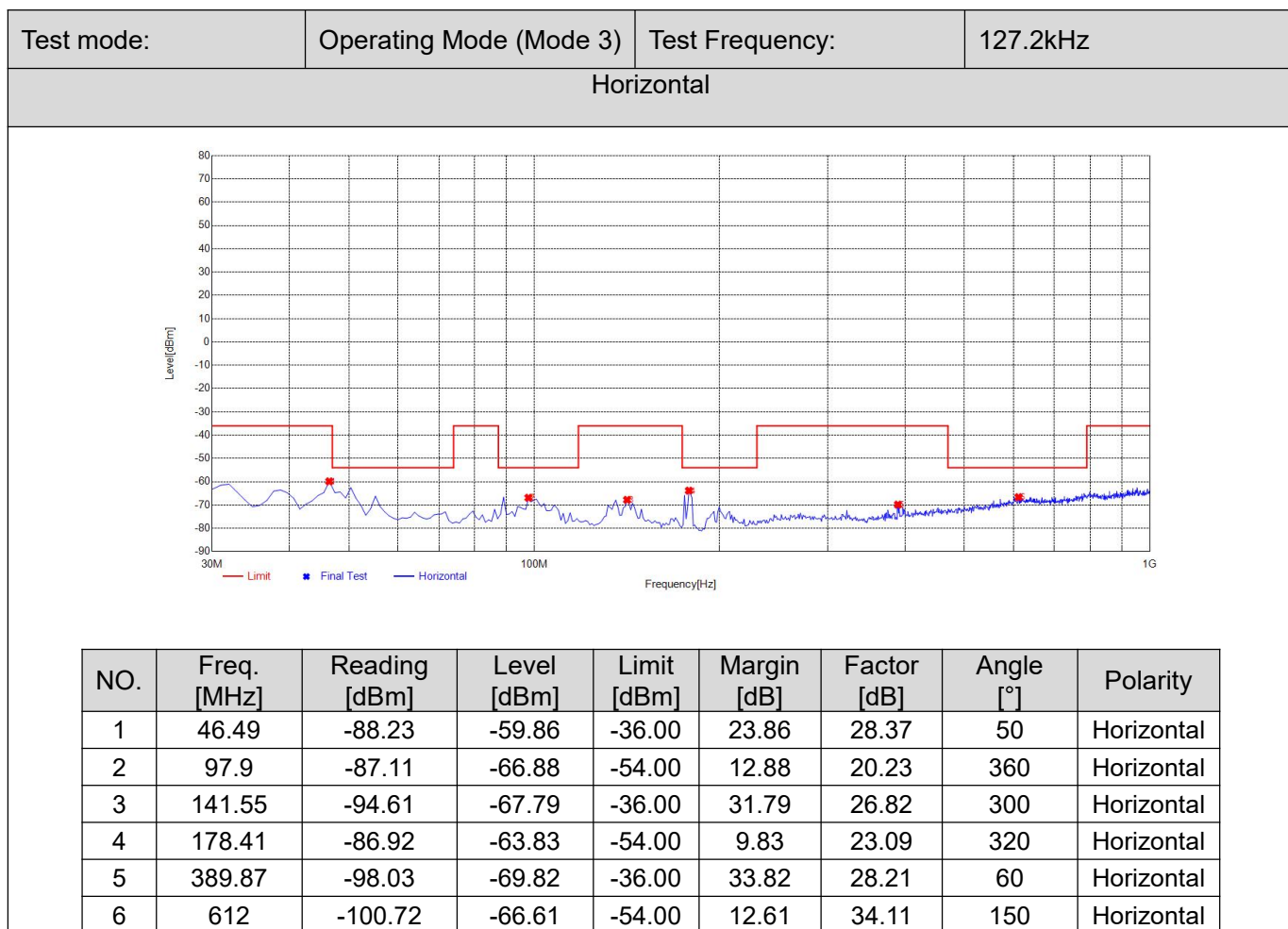
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**Test Procedure**

- ◆ For test method of frequency range (30 MHz-1000MHz)
- 1. EUT was placed on a 1.5m height wooden table. The search antenna is placed at 3m distances from the EUT and search antenna height is from 1-4m. With the transmitter operating at continuously mode, the turntable was slowly rotated to locate the direction of maximum emission. Once maximum direction is determined, the search antenna was raised and lowered in both vertical and horizontal polarizations.
- 2. The EUT was removed from the turntable and replaced with a linearly polarized antenna connected to a calibrated RF signal generator. The RF generator was set to a measured emission frequency and the search antenna was raised and lowered to produce a maximum received reading. The generator output was increased to match the radiated emission reading measured previously, and the result expressed in dB EIRP or ERP, correcting for substitution antenna gain at each frequency.
- 3. Factor=Antenna Factor + Cable loss, Margin=Limit- Measurement Level.
- 4. The “Factor” value can be calculated automatically by software of measurement system.
- 5. All test modes had been pre-tested. The worst case and recorded in the report.

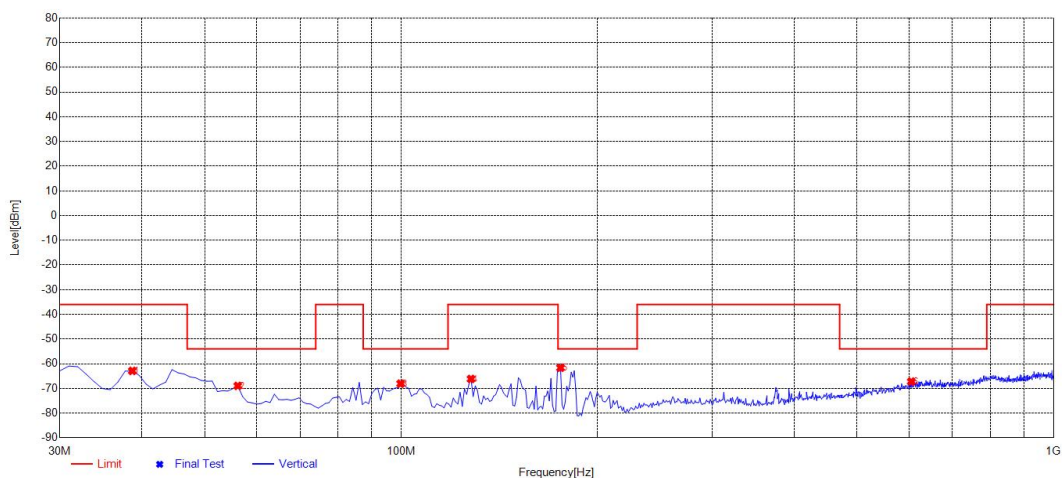
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## Test Result



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|            |                         |                 |          |
|------------|-------------------------|-----------------|----------|
| Test mode: | Operating Mode (Mode 3) | Test Frequency: | 127.2kHz |
| Vertical   |                         |                 |          |



| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Factor [dB] | Angle [°] | Polarity |
|-----|-------------|---------------|-------------|-------------|-------------|-------------|-----------|----------|
| 1   | 38.73       | -92.52        | -62.88      | -36.00      | 26.88       | 29.64       | 80        | Vertical |
| 2   | 56.19       | -95.64        | -68.94      | -54.00      | 14.94       | 26.70       | 220       | Vertical |
| 3   | 99.84       | -87.90        | -68.04      | -54.00      | 14.04       | 19.86       | 320       | Vertical |
| 4   | 127.97      | -90.62        | -66.14      | -36.00      | 30.14       | 24.48       | 170       | Vertical |
| 5   | 175.5       | -84.74        | -61.61      | -54.00      | 7.61        | 23.13       | 200       | Vertical |
| 6   | 605.21      | -101.27       | -67.19      | -54.00      | 13.19       | 34.08       | 20        | Vertical |

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## 5.6 Receiver Blocking

### Test Limit

The EUT shall achieve the wanted performance criterion, in the presence of the blocking signal.

|                                          | In-band signal                                                  | OOB signal                 | Remote-band signal                  |
|------------------------------------------|-----------------------------------------------------------------|----------------------------|-------------------------------------|
| Frequency                                | Centre frequency ( $f_c$ ) of the WPT system (see clause 4.3.3) | $f = f_c \pm F$ (see note) | $f = f_c \pm 10 \cdot F$ (see note) |
| Signal level field strength at the EUT   | 72dB $\mu$ A/m                                                  | 72dB $\mu$ A/m             | 82dB $\mu$ A/m                      |
| Note: $F = \text{OFR}$ see clause 4.3.3. |                                                                 |                            |                                     |

### Test Setup

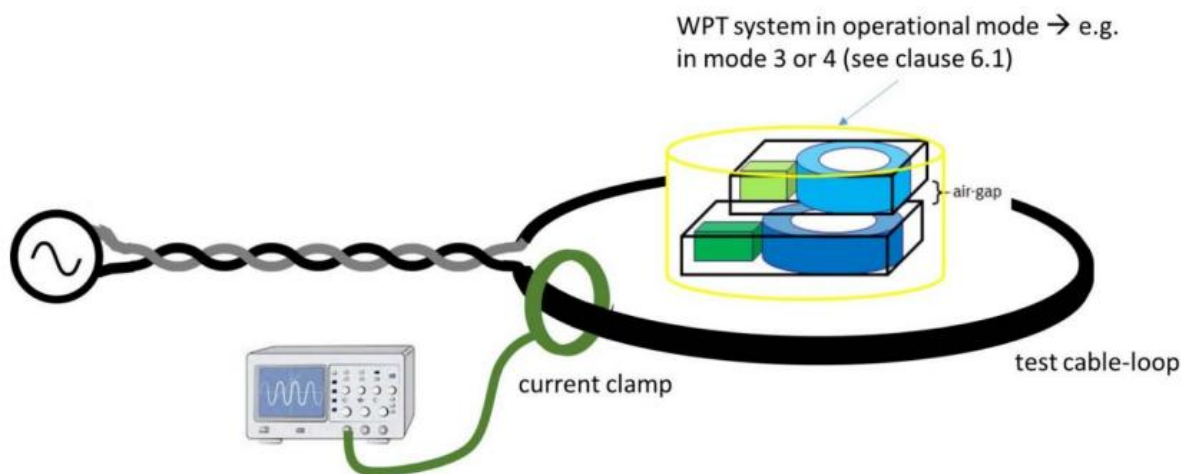


Figure 11: Schematic test set-up for the RX-blocking test

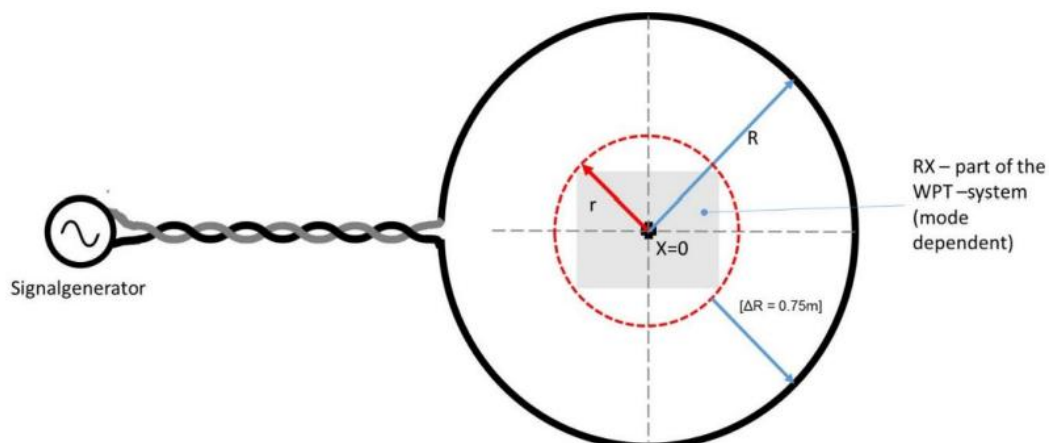


Figure 12: Schematic test set-up for the RX-blocking test

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## Test Procedure

The fulfilment of the WPT system performance criterion in all possible operational modes (see clause 4.2.3) shall be tested in presence of the inference signals according to Table 6.

- The manufacturer shall declare in which device orientation(s) (worst case) the test shall be performed.
- The WPT system shall initially operate without interference according to its specified sensitivity (detecting an specific object in the maximum depth as declared by the manufacturer (see clause 4.2.2 on wanted performance criteria)).
- The test setup is visualized in the following Figures 11 and 12.
- The tool shall be operated as intended (e.g. some tools might require to be moved across the object, some tool can be used stationary).
- The test shall be carried out inside a test chamber according to clauses C.1.1 and C.1.2 in ETSI EN 300 330 [1].
- A test loop with a radius  $r$  shall be used to create the magnetic field; the test loop shall lie on a non-metallic ground and the minimum distance to metallic objects (e.g. ground plane) shall be 0,75 m.
- The EUT shall be placed to the centre of the test-loop (e.g. see Figures 11 and 12).
- The test loop shall be sufficiently large so that the test loop itself does not influence the WPT system; The radius  $R$  of the test-loop shall be in minimum  $\Delta R = 0,75$  m larger than the maximum dimension  $r$  of the EUT.
- (See Figure 12):  $R \geq r + \Delta R$ .
- The maximum H-Field can be calculated from the loop current  $I$  (into the test-loop) with the following formula:

$$H = \frac{I}{2R}$$

## Test Result

☒ Test Mode: Mode 3

| Interference Type  | Test Frequency (kHz) | Signal level @ EUT | Performance      | Result |
|--------------------|----------------------|--------------------|------------------|--------|
| In-band signal     | 127.2                | 72dBuA/m           | No function loss | Pass   |
| OOB signal         | 126.272              | 72dBuA/m           | No function loss | Pass   |
|                    | 128.128              | 72dBuA/m           | No function loss | Pass   |
| Remote-band signal | 117.92               | 82dBuA/m           | No function loss | Pass   |
|                    | 136.48               | 82dBuA/m           | No function loss | Pass   |

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## Appendix I: Photographs of Test Setup

### Radiated Spurious Emissions Below 30MHz Test Setup



### Radiated Spurious Emissions Below 1GHz Test Setup



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**Appendix II: Photographs of Test EUT**

Refer to the Report No.: AGC05443260229AP01

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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.
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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 of 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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# Radio Test Report

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Report No.: AGC05443260229ER02

**PRODUCT DESIGNATION** : 3in1 foldable charging station  
**BRAND NAME** : N/A  
**MODEL NAME** : M02521  
**APPLICANT** : MID OCEAN BRANDS B.V.  
**DATE OF ISSUE** : Apr. 01, 2026  
**STANDARD(S)** : ETSI EN 303 417 V1.1.1 (2017-09)  
**REPORT VERSION** : V1.0

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**Report Revise Record**

| Report Version | Revise Time | Issued Date   | Valid Version | Notes           |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0           | /           | Apr. 01, 2026 | Valid         | Initial Release |

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## 1. General Information

|                              |                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------|
| Applicant                    | MID OCEAN BRANDS B.V.                                                                |
| Address                      | Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong. |
| Manufacturer                 | MID OCEAN BRANDS B.V.                                                                |
| Address                      | Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong. |
| Factory                      | MID OCEAN BRANDS B.V.                                                                |
| Address                      | Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong. |
| Product Designation          | 3in1 foldable charging station                                                       |
| Brand Name                   | N/A                                                                                  |
| Test Model                   | MO2521                                                                               |
| Series Model(s)              | N/A                                                                                  |
| Difference Description       | N/A                                                                                  |
| Date of receipt of test item | Feb. 26, 2026                                                                        |
| Date of Test                 | Feb. 26, 2026 to Apr. 01, 2026                                                       |
| Deviation from Standard      | No any deviation from the test method                                                |
| Condition of Test Sample     | Normal                                                                               |
| Test Result                  | Pass                                                                                 |
| Test Report Form No          | AGCER-EU-WPT-V1                                                                      |

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

Prepared By

*Jasiel Xie*

Jasiel Xie  
(Project Engineer)

Apr. 01, 2026

Reviewed By

*Bibo Zhang*

Bibo Zhang  
(Reviewer)

Apr. 01, 2026

Approved By

*Angela Li*

Angela Li  
(Authorized Officer)

Apr. 01, 2026

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## 2. Product Information

### 2.1 Product Technical Description

|                                        |                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------|
| Equipment Type                         | WPT System                                                                           |
| Permitted Range of Operating Frequency | <input type="checkbox"/> WPT Band 1: 19~21kHz                                        |
|                                        | <input type="checkbox"/> WPT Band 2: 59~61kHz                                        |
|                                        | <input type="checkbox"/> WPT Band 3: 79~90kHz                                        |
|                                        | <input checked="" type="checkbox"/> WPT Band 4: 100~119kHz, 119~140kHz, 140~148.5kHz |
|                                        | <input checked="" type="checkbox"/> WPT Band 4: 148.5~300kHz                         |
|                                        | <input type="checkbox"/> WPT Band 5: 6765kHz~6795kHz                                 |
| Operation Frequency                    | 110.5kHz-205kHz (Phone)                                                              |
| Hardware Version                       | V1.0                                                                                 |
| Software Version                       | V1.0                                                                                 |
| Modulation Type                        | ASK                                                                                  |
| Corrected Amplitude H-field@10m        | -16.77dB $\mu$ A/m@10m(Max.)                                                         |
| Antenna Designation                    | Coil Antenna                                                                         |
| Input Rating                           | DC 5V/2A, 9V/2A, 9V/3A by Adapter                                                    |
| Output Rating                          | Wireless Output for Phone: 15W Max.                                                  |

**Note:** For more details, refer to the user's manual of the EUT.

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## 2.2 Objective

Perform Radio Spectrum tests for CE Marking according to the provisions of article 3.2 of the Radio Equipment Directive (2014/53/EU) for the WPT function of the EUT.

## 2.3 Test Items and The Results

The tests were performed according to following standards:

|                                     |                                                                                                                                                                                                                                                            |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ETSI EN 303 417 V1.1.1<br>(2017-09) | Wireless power transmission systems, using technologies other than radio frequency beam in the 19-21kHz,59-61kHz,79-90kHz,100-300 kHz, 6765-6795kHz ranges; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Test items and the results are as bellow:

| No.                                 | Test Item                                | Standard Require | Condition                                                                                                             | Result |
|-------------------------------------|------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------|--------|
| Harmonised Standard ETSI EN 303 417 |                                          |                  |                                                                                                                       |        |
| 1                                   | Permitted range of Operating Frequencies | sub-clause 4.3.2 | /                                                                                                                     | Pass   |
| 2                                   | Operating Frequency Ranges               | sub-clause 4.3.3 | /                                                                                                                     | Pass   |
| 3                                   | H-field Requirements                     | sub-clause 4.3.4 | /                                                                                                                     | Pass   |
| 4                                   | Transmitter Spurious Emissions           | sub-clause 4.3.5 | /                                                                                                                     | Pass   |
| 5                                   | Transmitter Out of Band (OOB) Emissions  | sub-clause 4.3.6 | /                                                                                                                     | Pass   |
| 6                                   | WPT System Unwanted Conducted Emissions  | sub-clause 4.3.7 | Only for equipment which has a cable between the off board power supply and the primary coil which is longer than 3 m | N/A    |
| 7                                   | Receiver Blocking                        | sub-clause 4.4.2 | Only for Mode1, Mode2 and Mode3 (see Table 2)                                                                         | Pass   |

Note: N/A means not applicable. This equipment does not meet the above test item evaluation conditions, so it is not applicable.

## 2.3 Overview of Operational Modes within a WPT System

| EN 303 417 Clauses 4.2.3 Table 2: Overview of operational modes within a WPT system |                      |                          |                           |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------|----------------------|--------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operational Mode                                                                    | Set-up               | Function of base station | Function of mobile device | Test Scenario                                                                                                                                                                                                                                                                                                                            | Conformance Requirements                                                                                                                                                                                                                                   |
| Mode 1:<br>base station in stand-by, idle mode                                      | Single device        | TX                       | Not applicable            | Single radiation test (TX) with the base station/charging pad. The test set-up as described in clause 6.1.2 shall be used.                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>Operating frequency range (clause 4.3.3)</li> <li>H-Field emission (clause 4.3.4)</li> <li>TX spurious (clauses 4.3.5, 4.3.6 and 4.3.7)</li> <li>Performance criteria test (RX test) (clause 4.4)</li> </ul>        |
| Mode 2:<br>Communication before charging, adjustment charging mode / position       | In combination       | TX and RX                | TX and RX                 | Specific test setup, declared by the manufacturer. Manufacturer shall declare the maximal distance between base station and mobile device the WPT system is able to communicate (distance D). The test setup- up shall be performed with the largest communication distance. The test set-up as described in clause 6.1.3 shall be used. | <ul style="list-style-type: none"> <li>Operating frequency range (clause 4.3.3)</li> <li>H-Field emission (clause 4.3.4)</li> <li>TX spurious (clauses 4.3.5, 4.3.6 and 4.3.7)</li> <li>Wanted performance criteria test (RX test) (clause 4.4)</li> </ul> |
| Mode 3:<br>Communication                                                            | WPT system alignment | TX and RX                | TX and RX                 | <ul style="list-style-type: none"> <li>Worst case alignment</li> <li>Both tests can be performed within one set-up, worst-case alignment.</li> <li>The test set-up as described in clause 6.1.4 shall be used.</li> </ul>                                                                                                                | <ul style="list-style-type: none"> <li>Operating frequency range (clause 4.3.3)</li> <li>H-Field emission (clause 4.3.4)</li> <li>TX spurious (clauses 4.3.5, 4.3.6 and 4.3.7)</li> <li>Wanted Performance criteria test (RX test) (clause 4.4)</li> </ul> |
| Mode 4:<br>energy transmission                                                      | WPT system alignment | TX and RX                | TX and RX                 |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                            |

## 2.4 Description of Test Modes

| No. | Test Mode Description                                              | Test Channel |          |          |
|-----|--------------------------------------------------------------------|--------------|----------|----------|
|     |                                                                    | Lowest       | Middle   | Highest  |
| 1   | base station in stand-by, idle mode                                | /            |          |          |
| 2   | Communication before charging, adjustment charging mode / position | /            | /        | /        |
| 3   | Communication                                                      | 127.5kHz     |          |          |
| 4   | Energy transmission                                                | 115.4kHz     | 144.8kHz | 169.7kHz |

### Note:

- During the initial establishment of the charging mode (mode 2), no or very low emission occur (below the sensitivity level of the test set-up), so the mode 2 can be assumed as irrelevant for the test.
- Mode 1 is only for base station function equipment and is not taken into consideration
- Mode 3 and mode 4 have been performed within one set-up, worst-case alignment.
- The Communication frequency 127.5kHz corresponds to the maximum field strength.

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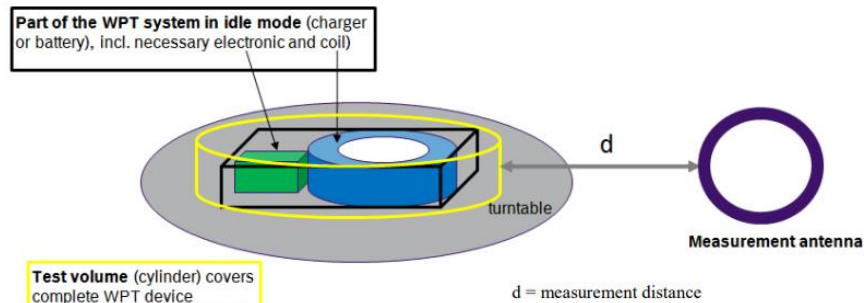
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

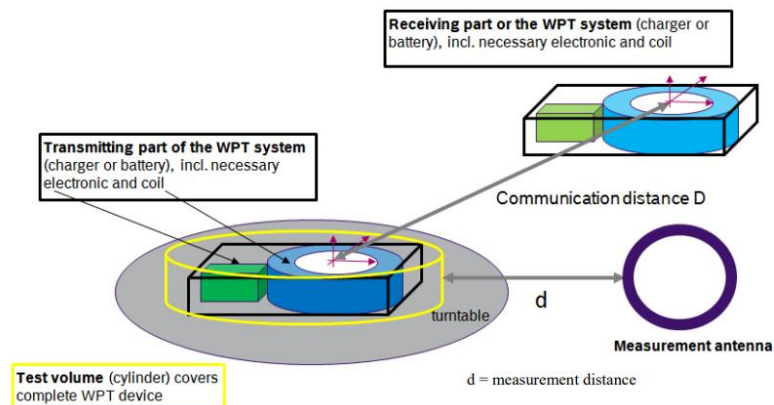
### 3. Setup of Equipment Under Test

#### 3.1 Setup Configuration of EUT

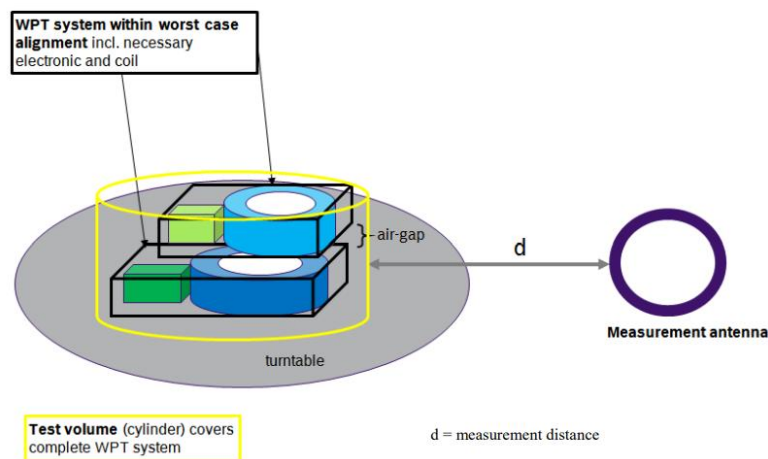
##### ◆ Mode 1: Idle Mode



##### ◆ Mode 2: Charging Adjustment



##### ◆ Mode 3 and Mode 4: Power Transmission Arrangement



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### 3.2 Support Equipment

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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

| Whether support unit is used? |                        |              |           |                               |
|-------------------------------|------------------------|--------------|-----------|-------------------------------|
| Yes                           |                        |              |           |                               |
| Item                          | Equipment              | Manufacturer | Model No. | Specification                 |
| 1                             | Wireless Charging Load | YBZ          | Q2        | Support 5W,7.5W,10W, 15W, 25W |

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## 4. Test Environment

### 4.1 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

### 4.2 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.

#### 4.3 Environmental Conditions

|                   |                       |         |
|-------------------|-----------------------|---------|
| Normal Condition  | VN=nominal Voltage    | DC 9.0V |
|                   | TN=normal Temperature | 25 °C   |
| Extreme Condition | VL=lower Voltage      | DC 8.0V |
|                   | TL=lower Temperature  | 0 °C    |
|                   | VH=higher Voltage     | DC 9.9V |
|                   | TH=higher Temperature | 40 °C   |

Note: The maximum temperature of 40 is not a standard requirement and is measured according to the maximum service temperature stated by the manufacturer.

#### 4.4 Measurement Uncertainty

| Test Items                                                                                                           | Measurement Uncertainty       |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Frequency error                                                                                                      | $\pm 1 \times 10^{-7}$        |
| Transmitter power conducted                                                                                          | $\pm 0.75\text{dB}$           |
| Maximum Frequency Deviation:<br>Within 300Hz and 6KHz of Audio Frequency<br>Within 6KHz and 25KHz of Audio Frequency | $\pm 5\%$<br>$\pm 3\text{dB}$ |
| Adjacent channel power                                                                                               | $\pm 3\text{dB}$              |
| Conducted Emission of Transmitter, Valid Up to 12.75GHz                                                              | $\pm 4\text{dB}$              |
| Conducted Emissions of Receivers                                                                                     | $\pm 3\text{dB}$              |
| Radiated Emission of Transmitter, Valid Up to 12.75GHz                                                               | $\pm 6\text{dB}$              |

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=1.96$ .

#### 4.5 List of Equipment Used

| ● Radiated Spurious Emission        |               |                               |              |           |              |                           |                           |
|-------------------------------------|---------------|-------------------------------|--------------|-----------|--------------|---------------------------|---------------------------|
| 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-EM-E046   | EMI Test Receiver             | R&S          | ESCI      | 100096       | 2026-01-13                | 2027-01-12                |
| <input checked="" type="checkbox"/> | AGC-EM-E061   | Spectrum Analyzer             | Agilent      | N9010A    | MY53470504   | 2025-05-08                | 2026-05-07                |
| <input checked="" type="checkbox"/> | AGC-EM-E005   | Wideband Antenna              | SCHWARZBECK  | VULB9168  | VULB9168-494 | 2025-01-15                | 2027-01-14                |
| <input type="checkbox"/>            | AGC-EM-E146   | Pre-amplifier                 | ETS          | 3117-PA   | 00246148     | 2024-08-03                | 2026-07-23                |
| <input checked="" type="checkbox"/> | AGC-EM-E086   | Active loop antenna(9K-30MHz) | ZHINAN       | ZN30900C  | 18051        | 2026-01-14                | 2028-01-13                |
| <input checked="" type="checkbox"/> | AGC-EM-E017   | Power Amplifier               | AR           | 75A250    | 18464        | 2025-07-18                | 2026-07-17                |

| ● Test Software                     |               |                 |              |                      |                     |
|-------------------------------------|---------------|-----------------|--------------|----------------------|---------------------|
| Used                                | Equipment No. | Test Equipment  | Manufacturer | Model No.            | Version Information |
| <input checked="" type="checkbox"/> | AGC-EM-S011   | RSE Test System | Tonscend     | TS+-Ver2.1(JS36-RSE) | 4.0.0.0             |

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## 5. ETSI EN 303 417 Requirements for Transmitter and Receiver

### 5.1 Operating Frequency Ranges and Permitted Range of Operating Frequencies

#### Test Limit

The permitted range of operating frequency range(s) for intentional emissions shall be within 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz,

#### Test Description

- ◆ The operating frequency range is the frequency range over which the WPT system is intentionally transmitting (all operational modes, see clause 4.2.3, Table 2).
- ◆ The operating frequency range(s) of the WPT system are determined by the lowest ( $f_L$ ) and highest frequency ( $f_H$ ) as occupied by the power envelope.
- ◆ The WPT system could have more than one operating frequency range. For a single frequency systems the OFR is equal to the occupied bandwidth (OBW) of the WPT system.
- ◆ For multi-frequency systems the OFR is described in Figures 2 and 3.

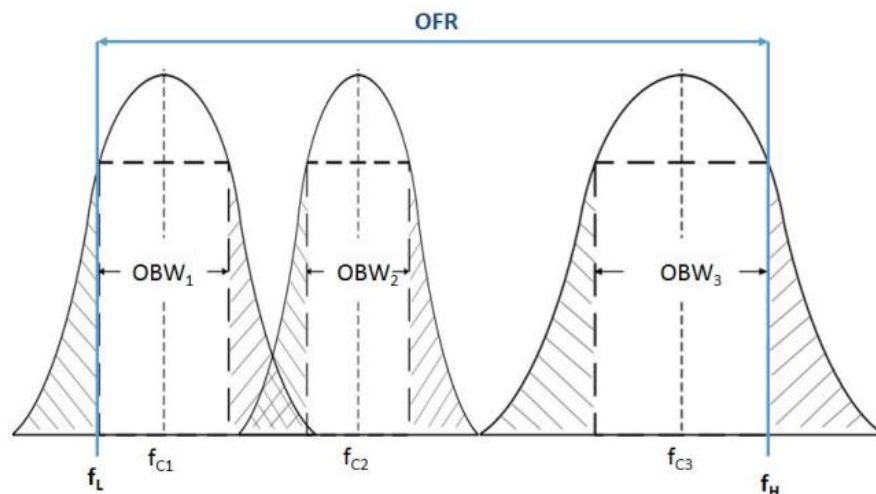


Figure 2: OFR of a multi - frequency WPT system within one frequency range of Table 2 and within one WPT system cycle time

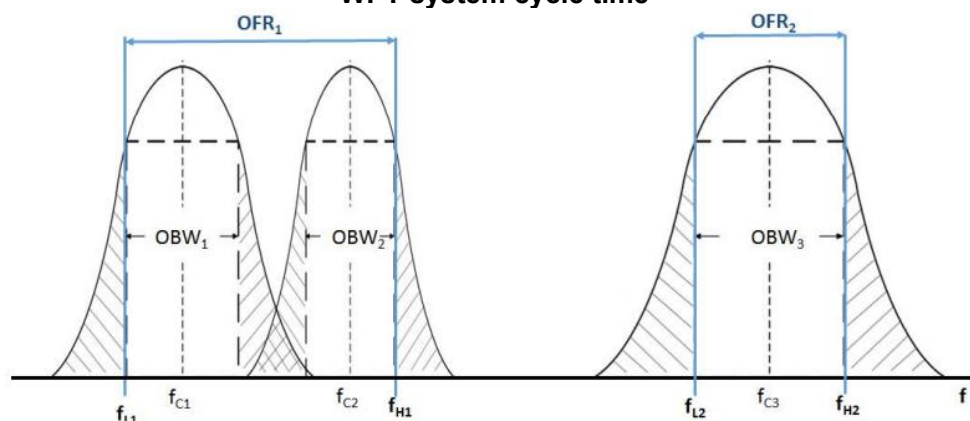
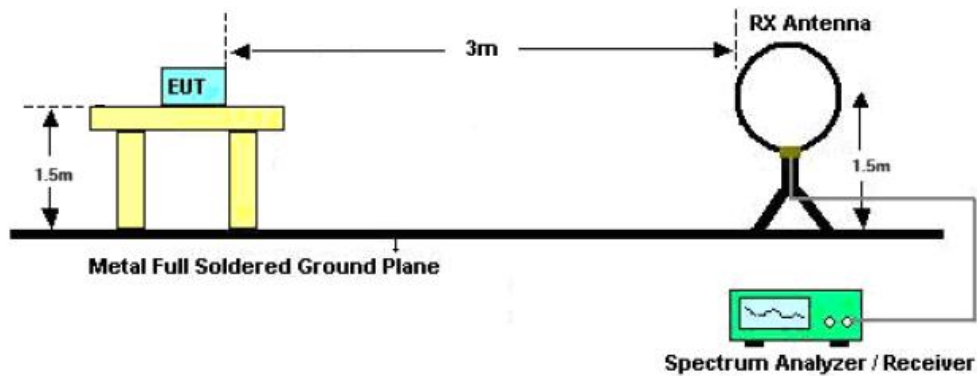


Figure 3: OFR of a multi - frequency WPT system within two frequency ranges of Table 2 and within one WPT system cycle time

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## Test Setup



## Test Procedure

1. The EUT was placed on a turn table which is 1.5m above ground plane.
2. The EUT was modulated by normal signal,
3. Set SPA Center Frequency = fundamental frequency, RBW=VBW=200Hz, Span=5kHz, Detector=RMS.  
The 99 % OBW function shall be used to determine the operating frequency range,  $f_H$  is the frequency of the upper marker resulting from the OFR,  $f_L$  is the frequency of the lower marker resulting from the OFR.
4. Both normal test condition and extreme test condition applied

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## Test Result

☒ Test Mode: Mode 3

| Frequency (kHz) | Test Conditions  |             | 99% Bandwidth (kHz) | F <sub>L</sub> at 99% BW (kHz) | F <sub>H</sub> at 99% BW (kHz) | Limit Band (kHz) | Result |
|-----------------|------------------|-------------|---------------------|--------------------------------|--------------------------------|------------------|--------|
|                 | Temperature (°C) | Voltage (V) |                     |                                |                                |                  |        |
| 127.5           | 0                | 0.917       | 127.041             | 127.958                        | 0.917                          | 100~300          | Pass   |
|                 |                  | 0.916       | 127.041             | 127.957                        | 0.916                          |                  | Pass   |
|                 | 25               | 0.925       | 127.038             | 127.963                        | 0.925                          |                  | Pass   |
|                 | 40               | 0.918       | 127.042             | 127.960                        | 0.918                          |                  | Pass   |
|                 |                  | 0.923       | 127.039             | 127.962                        | 0.923                          |                  | Pass   |

☒ Test Mode: Mode 4

| Frequency Range<br>(kHz) | Test Conditions     |                | Lower<br>Frequency<br>(kHz) | Upper<br>Frequency<br>(kHz) | Limit<br>Band<br>(kHz) |
|--------------------------|---------------------|----------------|-----------------------------|-----------------------------|------------------------|
|                          | Temperature<br>(°C) | Voltage<br>(V) |                             |                             |                        |
| 115.4-169.7              | 0                   | 9.90           | 114.934                     | 170.188                     | 100~300                |
|                          |                     | 8.00           | 114.937                     | 170.182                     |                        |
|                          | 25                  | 9.00           | 114.933                     | 170.189                     |                        |
|                          | 40                  | 9.90           | 114.934                     | 170.188                     |                        |
|                          |                     | 8.00           | 114.938                     | 170.187                     |                        |
| OFR                      | 55.256kHz           |                |                             |                             |                        |
| Result                   | Pass                |                |                             |                             |                        |

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## 5.2 Transmitter H-Field Requirements

### Test Limit

- The H-field limits are provided in Table 3.
- They have been specified for control of any radiated emissions within the OFR originating from the WPT system (power transmission and accompanying data communication).
- The H-field limits in Table 3 are EU wide harmonised according to EC Decision 2013/752/EU [i.2]. Further information is available in CEPT/ERC/REC 70-03 [i.1].

**Table 3: H-field limits**

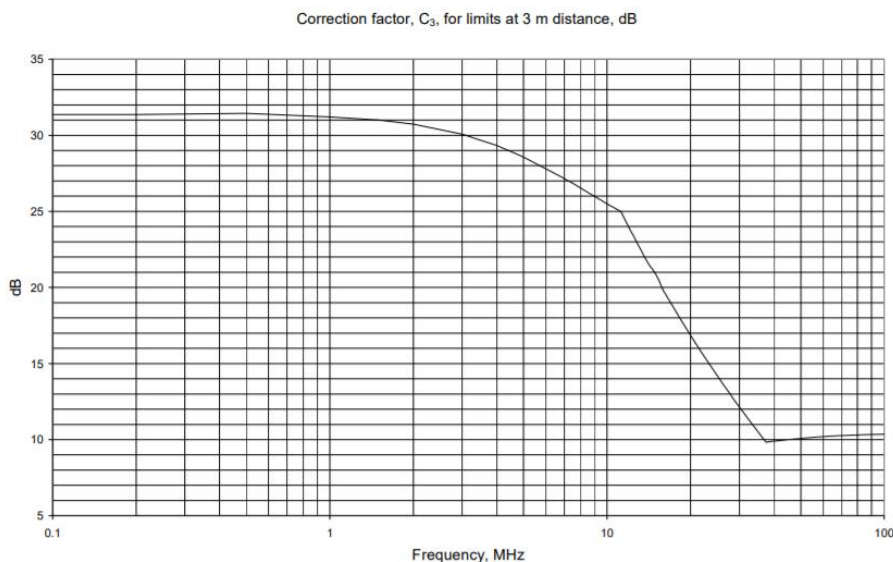
| Frequency range [MHz]   | H-field strength limit [dBμA/m at 10 m]   | Comments   |
|-------------------------|-------------------------------------------|------------|
| $0,019 \leq f < 0,021$  | 72                                        |            |
| $0,059 \leq f < 0,061$  | 69,1 descending 10 dB/dec above 0,059 MHz | See note 1 |
| $0,079 \leq f < 0,090$  | 67,8 descending 10 dB/dec above 0,079 MHz | See note 2 |
| $0,100 \leq f < 0,119$  | 42                                        |            |
| $0,119 \leq f < 0,135$  | 66 descending 10 dB/dec above 0,119 MHz   | See note 1 |
| $0,135 \leq f < 0,140$  | 42                                        |            |
| $0,140 \leq f < 0,1485$ | 37,7                                      |            |
| $0,1485 \leq f < 0,30$  | -5                                        |            |
| $6,765 \leq f < 6,795$  | 42                                        |            |

NOTE 1: Limit is 42 dBμA/m for the following spot frequencies: 60 kHz ± 250 Hz and 129,1 kHz ± 500 Hz.  
NOTE 2: At the time of preparation of the present document the feasibility of increased limits for high power wireless power transmission systems to charge vehicles [i.4] was prepared. New specific requirements for such systems (e.g. higher H-field emission limits in the 79 - 90 kHz band) will be reflected within a future revision of the present document.

- ◆ The H-field limit in dBμA/m at 3 m,  $H_{3m}$ , is determined by the following equation:

$$H_{3m} = H_{10m} + C_3 (F.2)$$

Where:  $H_{10m}$  is the H-field limit in dBμA/m at 10 m distance according to the present document; and  $C_3$  is a conversion factor in dB determined from figure F.2.

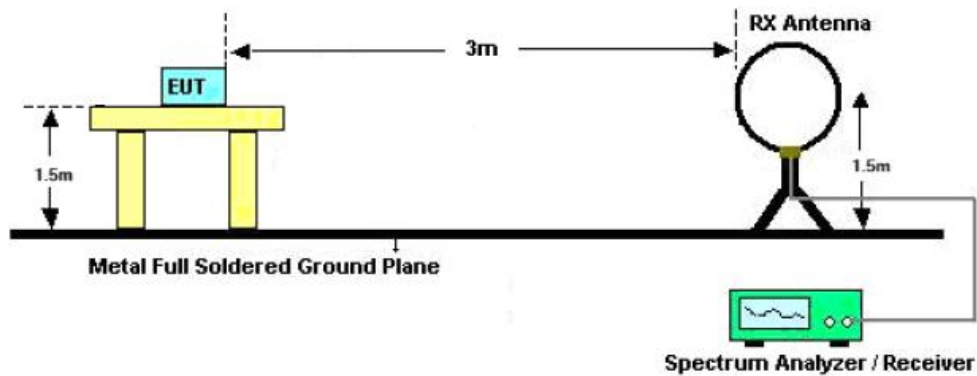


**Figure H.2: Conversion factor  $C_3$  versus frequency**

- $E(\text{dB}\mu\text{V/m}) = \text{dB}\mu\text{A/m} + 51.5;$
- $\text{ERP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\lg(D) - 104.8$ , D is the measurement distance;
- $\text{ERP} = 10\lg P(\text{mW})$

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## Test Setup



## Test Procedure

1. The EUT was placed on the top of an insulating table 1.5 meters above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The H-field is measured with a shielded loop antenna connected to a measurement receiver.
4. The measuring bandwidth and detector type of the measurement receiver shall be in accordance with EN 300 330 V2.1.1 clause 5.12.
5. The EUT operate with modulation under normal and extreme conditions.

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### Test Result

| Test conditions | Test Temp. | Test Volt. | Note       |
|-----------------|------------|------------|------------|
| TN/VN           | 25°C       | 9.00V      | Worst case |
| TL/ VL          | 0°C        | 8.00V      | --         |
| TH/ML           | 40°C       | 8.00V      | --         |
| TL/VH           | 0°C        | 9.90V      | --         |
| TH/VH           | 40°C       | 9.90V      | --         |

☒ Test Mode: Mode 3

| Frequency (kHz) | Reading (dBμA/m) | Factor (dB) | Field Strength (dBμV/m@3m) | Field Strength (dBμA/m@3m) | Calculated (dBμA/m@10m) | Limit at 10m (dBμA/m@10m) | Result |
|-----------------|------------------|-------------|----------------------------|----------------------------|-------------------------|---------------------------|--------|
| 127.5           | 39.62            | 26.31       | 65.93                      | 14.43                      | -16.77                  | 65.48                     | Pass   |

☒ Test Mode: Mode 4

| Frequency (kHz) | Reading (dBμA/m) | Factor (dB) | E-Field Strength (dBμV/m@3m) | H-Field Strength (dBμA/m@3m) | Calculated (dBμA/m@10m) | Limit at 10m (dBμA/m@10m) | Result |
|-----------------|------------------|-------------|------------------------------|------------------------------|-------------------------|---------------------------|--------|
| 115.4           | 30.32            | 26.31       | 56.63                        | 5.13                         | -26.07                  | 42.00                     | Pass   |
| 144.8           | 31.64            | 26.31       | 57.95                        | 6.45                         | -24.75                  | 37.70                     | Pass   |
| 169.7           | 30.21            | 26.31       | 56.52                        | 5.02                         | -26.18                  | -5.00                     | Pass   |

#### Remark:

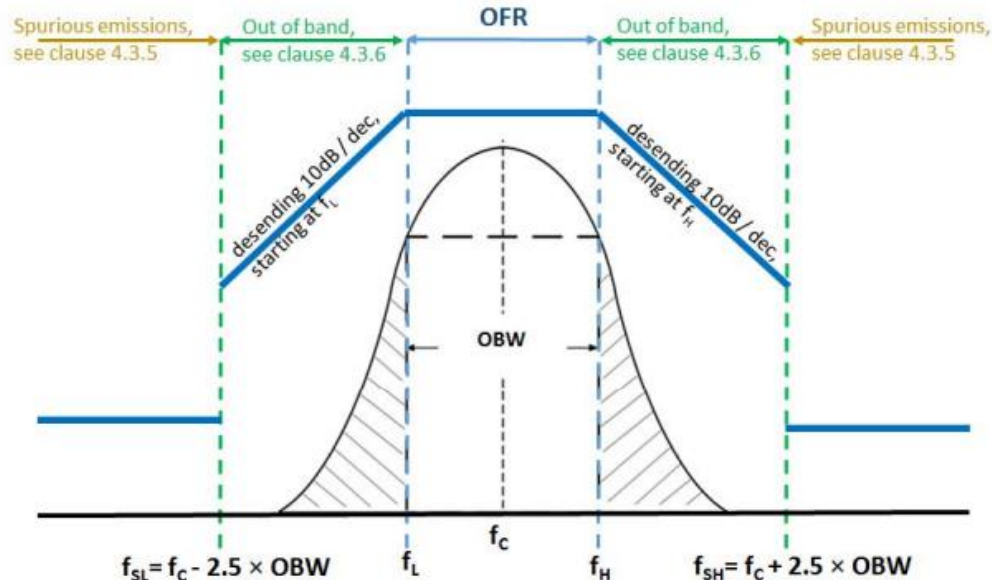
1. Field Strength at 3m(dBμA/m) = Reading Level + Corrected Factor
2. Calculated at 10m(dBμA/m) = Field Strength at 3m(dBμA/m)-31.2dB
3. For the calculated method, please refer to Annex F at EN 300330.

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### 5.3 Transmitter Out of Band (OOB) Emissions

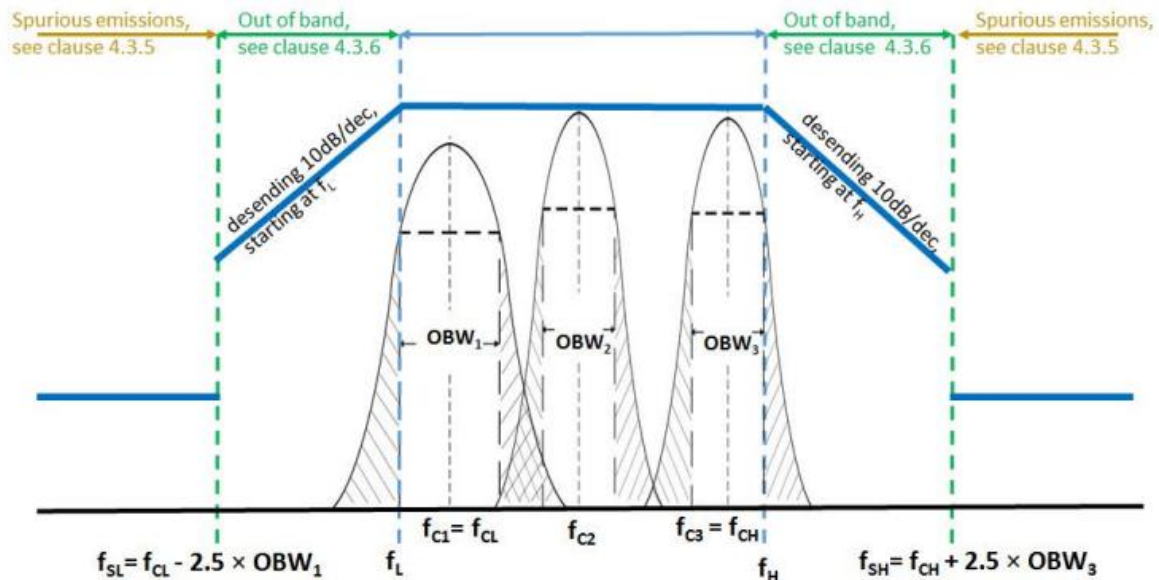
#### Test Limit

The OOB limits are visualized in Figures 4 and 5; they are descending from the intentional limits from Table 3 at  $f_H/f_L$  with 10 dB/decade.



**Figure 4: Out of band and spurious domain of a single frequency WPT system**

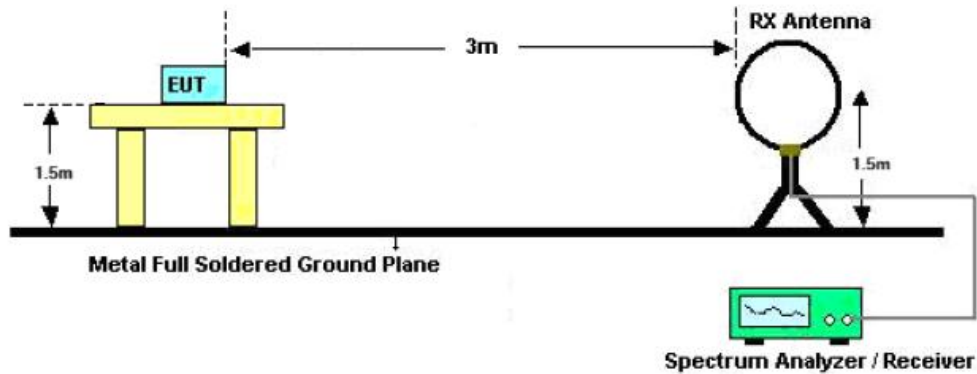
The transmitter spurious emissions for a multi frequency system (within one WPT frequency range from Table 2) are to be considered in frequency ranges defined in Figure 5 ( $f < f_{SL}$  and  $f > f_{SH}$ )



**Figure 5: Out of band and spurious domain of a multi - frequency system (during one WPT system cycle time)**

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## Test Setup



## Test Procedure

1. The EUT was placed on a turn table which is 1.5m above ground plane.
2. The EUT was modulated by normal signal,
3. Set SPA Center Frequency = fundamental frequency, RBW=VBW=200Hz, Span=5KHz, Detector=RMS.  
The 99 % OBW function shall be used to determine the operating frequency range,  $f_H$  is the frequency of the upper marker resulting from the OFR,  $f_L$  is the frequency of the lower marker resulting from the OFR.
4. Both normal test condition and extreme test condition applied

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## Test Result

☒ Test Mode: Mode 3

| Test Frequency (kHz) | Frequency Range (kHz) |                   | Maximum level @10m (dBμA/m) | Limit @ 10m (dBμA/m) | Result |
|----------------------|-----------------------|-------------------|-----------------------------|----------------------|--------|
| 127.5                | $f_{SL}-f_L$          | 125.188 - 127.038 | Less than -25.93            | See figure 4         | Pass   |
|                      | $f_L$                 | 127.038           | -25.93                      | 65.48                | Pass   |
|                      | $f_H$                 | 127.963           | -26.45                      | 65.48                | Pass   |
|                      | $f_H-f_{SH}$          | 127.963 - 129.813 | Less than -26.45            | See figure 4         | Pass   |

☒ Test Mode: Mode 4

| Test Frequency (kHz) | Frequency Range (kHz) |                   | Maximum level @10m (dBμA/m) | Limit @ 10m (dBμA/m) | Result |
|----------------------|-----------------------|-------------------|-----------------------------|----------------------|--------|
| 115.4-169.7          | $f_{SL}-f_L$          | 113.063 - 114.933 | Less than -35.23            | See figure 4         | Pass   |
|                      | $f_L$                 | 114.933           | -35.23                      | 42.00                | Pass   |
|                      | $f_H$                 | 170.189           | -35.86                      | -5.00                | Pass   |
|                      | $f_H-f_{SH}$          | 170.189 - 172.143 | Less than -35.86            | See figure 4         | Pass   |

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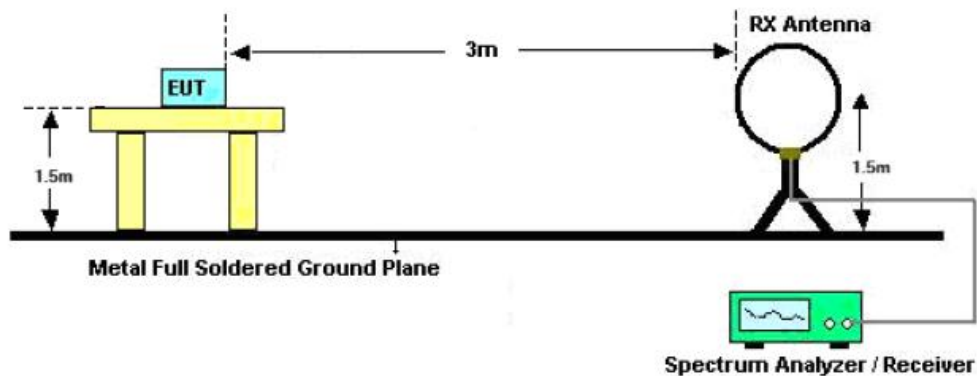
## 5.4 Transmitter Spurious Emissions (Frequency Below 30MHz)

### Test Limit

| Operating Mode                           |          |                                              |
|------------------------------------------|----------|----------------------------------------------|
| Frequency Range                          | Distance | Maximum Field Strength Limit                 |
| $9 \text{ kHz} \leq f < 10 \text{ MHz}$  | 10m      | 27dB $\mu$ A/m at 9 kHz descending 3 dB/oct  |
| $10 \text{ MHz} \leq f < 30 \text{ MHz}$ | 10m      | -3.5 dB $\mu$ A/m                            |
| Stand-by Mode                            |          |                                              |
| $9 \text{ kHz} \leq f < 10 \text{ MHz}$  | 10m      | 5.5dB $\mu$ A/m at 9 kHz descending 3 dB/oct |
| $10 \text{ MHz} \leq f < 30 \text{ MHz}$ | 10m      | -25 dB $\mu$ A/m                             |

Note: "Operating" means mode 2, 3 and 4 according to Table 2; "standby" means mode 1 according to Table 2.

### Test Setup



### Test Procedure

- ◆ For test method of frequency range (9 kHz-30MHz)
- 1. The EUT was placed on the top of an insulating table 1.5 meters above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3. The H-field is measured with a shielded loop antenna connected to a measurement receiver.
- 4. The measuring bandwidth and detector type of the measurement receiver shall be in accordance with EN 300 330 V2.1.1 clause 5.12

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### Test Result

☒ Test Mode: Mode 3 (Operating Mode: Face)

| Transmitter Spurious Emissions for 9kHz to 30MHz |                |               |                              |                               |                         |                    |             |
|--------------------------------------------------|----------------|---------------|------------------------------|-------------------------------|-------------------------|--------------------|-------------|
| Frequency (MHz)                                  | Reading (dBμV) | Factor (dB/m) | E-Field Strength@3m (dBμV/m) | E-Field Strength@10m (dBμV/m) | Calculated@10m (dBμA/m) | Limit@10m (dBμA/m) | Margin (dB) |
| 0.031                                            | 20.58          | 35.88         | 56.46                        | 46.00                         | -5.50                   | 21.63              | 24.80       |
| 0.310                                            | 17.45          | 33.13         | 50.58                        | 40.12                         | -11.38                  | 11.63              | 22.25       |
| 0.588                                            | 14.73          | 33.13         | 47.86                        | 37.40                         | -14.10                  | 8.85               | 23.00       |
| 1.652                                            | 14.41          | 25.45         | 39.86                        | 29.40                         | -22.10                  | 4.36               | 25.53       |
| 3.526                                            | 12.72          | 22.66         | 35.38                        | 24.92                         | -26.58                  | 1.07               | 27.84       |
| 4.754                                            | 11.06          | 18.56         | 29.62                        | 19.16                         | -32.34                  | -0.23              | 31.44       |

☒ Test Mode: Mode 3 (Operating Mode: Side)

| Transmitter Spurious Emissions for 9kHz to 30MHz |                |               |                              |                               |                         |                    |             |
|--------------------------------------------------|----------------|---------------|------------------------------|-------------------------------|-------------------------|--------------------|-------------|
| Frequency (MHz)                                  | Reading (dBμV) | Factor (dB/m) | E-Field Strength@3m (dBμV/m) | E-Field Strength@10m (dBμV/m) | Calculated@10m (dBμA/m) | Limit@10m (dBμA/m) | Margin (dB) |
| 0.035                                            | 20.39          | 35.88         | 56.27                        | 45.81                         | -5.69                   | 21.08              | 43.61       |
| 0.287                                            | 17.35          | 33.13         | 50.48                        | 40.02                         | -11.48                  | 11.96              | 50.58       |
| 0.535                                            | 14.62          | 33.13         | 47.75                        | 37.29                         | -14.21                  | 9.26               | 48.81       |
| 2.054                                            | 14.66          | 25.45         | 40.11                        | 29.65                         | -21.85                  | 3.42               | 44.82       |
| 3.255                                            | 12.75          | 22.66         | 35.41                        | 24.95                         | -26.55                  | 1.42               | 42.90       |
| 5.295                                            | 11.15          | 18.56         | 29.71                        | 19.25                         | -32.25                  | -0.70              | 43.61       |

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☒ Test Mode: Mode 4 (Operating Mode: Face), Lowest Channel Worst Case

| Transmitter Spurious Emissions for 9kHz to 30MHz |                |               |                              |                               |                         |                    |             |
|--------------------------------------------------|----------------|---------------|------------------------------|-------------------------------|-------------------------|--------------------|-------------|
| Frequency (MHz)                                  | Reading (dBμV) | Factor (dB/m) | E-Field Strength@3m (dBμV/m) | E-Field Strength@10m (dBμV/m) | Calculated@10m (dBμA/m) | Limit@10m (dBμA/m) | Margin (dB) |
| 0.070                                            | 20.78          | 35.88         | 56.66                        | 46.20                         | -5.30                   | 18.07              | 23.37       |
| 0.722                                            | 17.36          | 33.13         | 50.49                        | 40.03                         | -11.47                  | 7.96               | 19.43       |
| 0.446                                            | 14.67          | 33.13         | 47.80                        | 37.34                         | -14.16                  | 10.05              | 24.20       |
| 1.472                                            | 14.83          | 25.45         | 40.28                        | 29.82                         | -21.68                  | 4.86               | 26.54       |
| 3.417                                            | 12.35          | 22.66         | 35.01                        | 24.55                         | -26.95                  | 1.21               | 28.16       |
| 5.448                                            | 10.99          | 18.56         | 29.55                        | 19.09                         | -32.41                  | -0.82              | 31.59       |

☒ Test Mode: Mode 4 (Operating Mode: Side), Lowest Channel Worst Case

| Transmitter Spurious Emissions for 9kHz to 30MHz |                |               |                              |                               |                         |                    |             |
|--------------------------------------------------|----------------|---------------|------------------------------|-------------------------------|-------------------------|--------------------|-------------|
| Frequency (MHz)                                  | Reading (dBμV) | Factor (dB/m) | E-Field Strength@3m (dBμV/m) | E-Field Strength@10m (dBμV/m) | Calculated@10m (dBμA/m) | Limit@10m (dBμA/m) | Margin (dB) |
| 0.084                                            | 20.70          | 35.88         | 56.58                        | 46.12                         | -5.38                   | 17.31              | 22.69       |
| 0.723                                            | 17.74          | 33.13         | 50.87                        | 40.41                         | -11.09                  | 7.95               | 19.04       |
| 0.551                                            | 14.57          | 33.13         | 47.70                        | 37.24                         | -14.26                  | 9.13               | 23.39       |
| 1.481                                            | 14.73          | 25.45         | 40.18                        | 29.72                         | -21.78                  | 4.84               | 26.62       |
| 2.612                                            | 12.67          | 22.66         | 35.33                        | 24.87                         | -26.63                  | 2.37               | 29.01       |
| 5.482                                            | 10.89          | 18.56         | 29.45                        | 18.99                         | -32.51                  | -0.85              | 31.66       |

**Notes:**

1. Negative sign (-) in the margin column signify levels below the limit.
2. Other emissions found were at least 20 dB below the limit.
3.  $E\text{-Field Strength@3m(dB}\mu\text{V/m)} = \text{Reading Level} + \text{Factor}$
4.  $E\text{-Field Strength@10m(dB}\mu\text{V/m)} = E\text{-Field Strength@3m(dB}\mu\text{V/m)} + 10.46\text{dB}$
5.  $H\text{-Field Strength(dB}\mu\text{A/m)} = E\text{-Field Strength(dB}\mu\text{V/m)} - 51.5\text{dB}$

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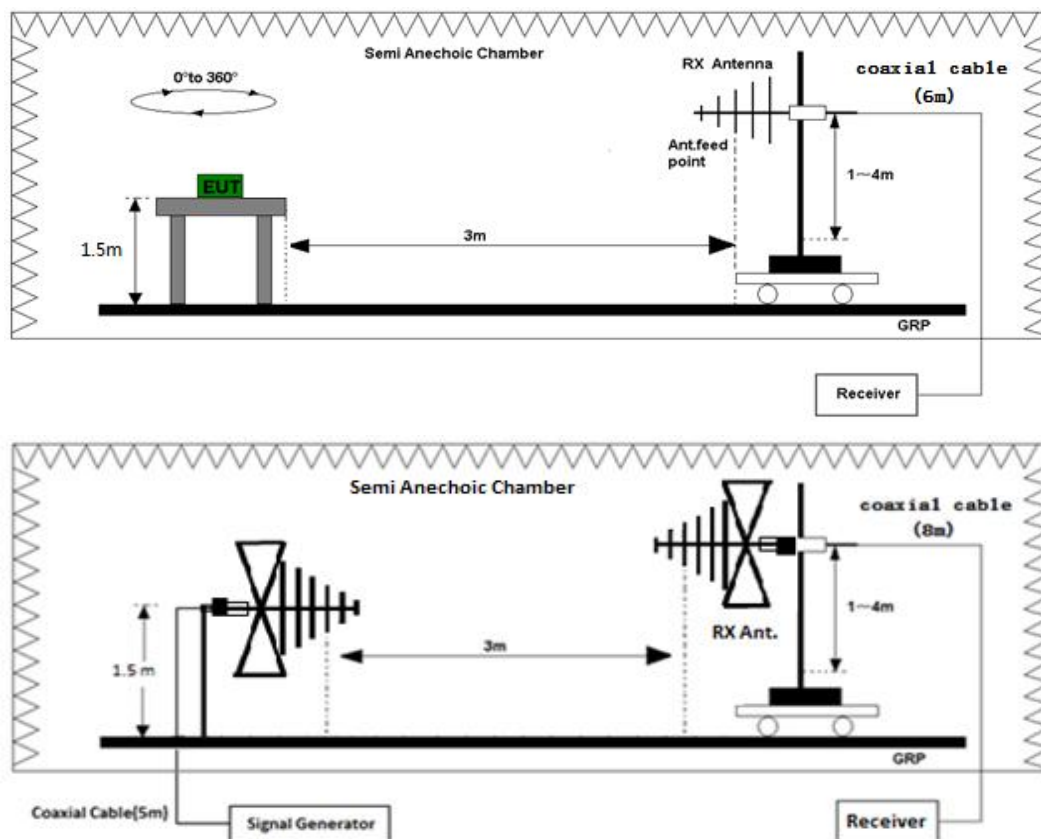
## 5.5 Transmitter Spurious Emissions (Frequency Above 30MHz)

Spurious emissions are emissions at frequencies other than those of the carrier and sidebands associated with normal modulation.

### Test Limit

| Frequency Range                            | Operating Mode Limit | Standby Mode Limit |
|--------------------------------------------|----------------------|--------------------|
| 47 MHz to 74 MHz                           | 4 nW                 | 2 nW               |
| 87.5 MHz to 118 MHz                        | 4 nW                 | 2 nW               |
| 174 MHz to 230 MHz                         | 4 nW                 | 2 nW               |
| 470 MHz to 790 MHz                         | 4 nW                 | 2 nW               |
| Other frequency between 30 MHz to 1000 MHz | 250 nW               | 2 nW               |

### Test Setup



Radiated Emission Test Set-Up Frequency 30 MHz ~ 1 GHz

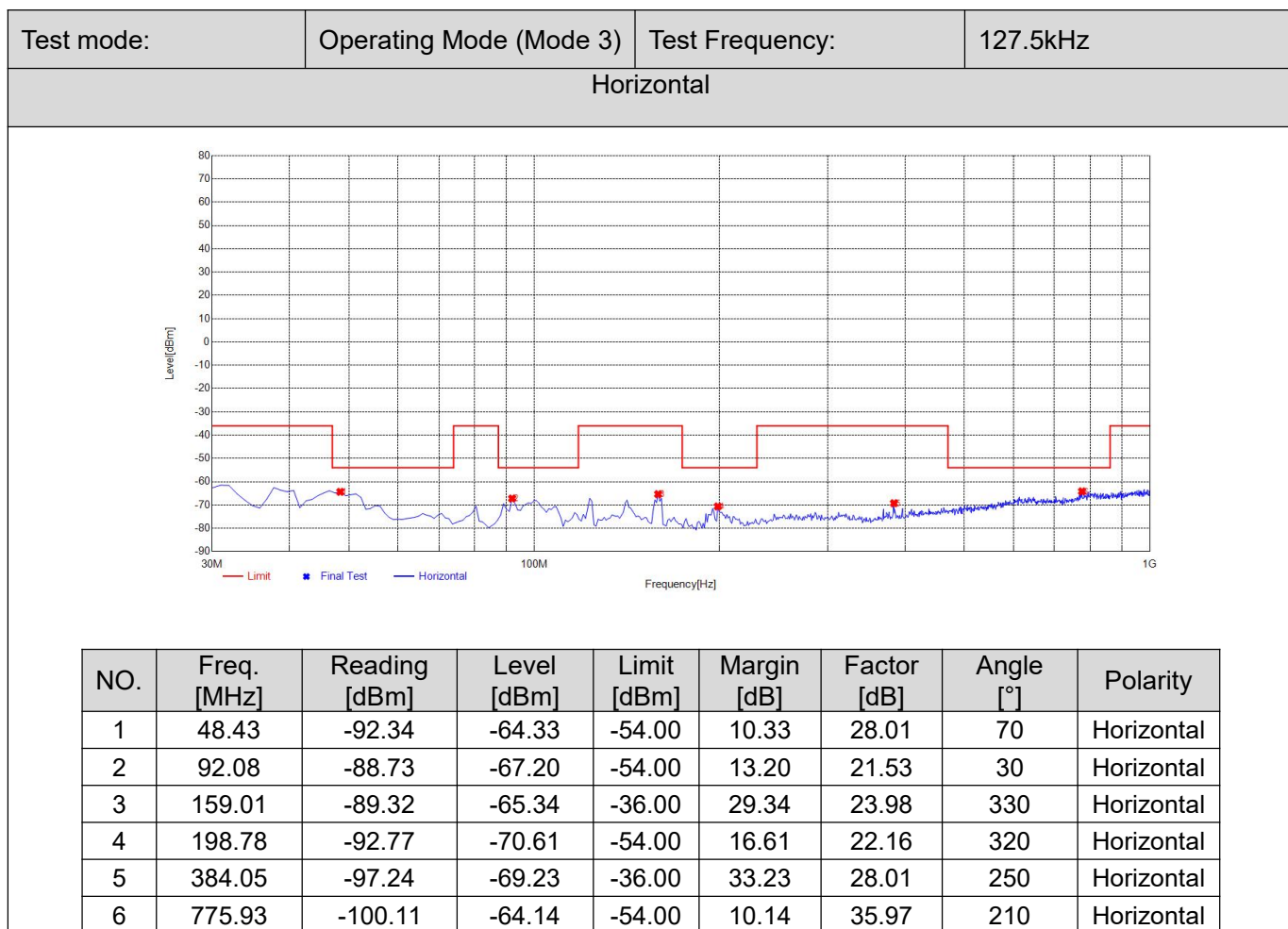
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**Test Procedure**

- ◆ For test method of frequency range (30 MHz-1000MHz)
- 1. EUT was placed on a 1.5m height wooden table. The search antenna is placed at 3m distances from the EUT and search antenna height is from 1-4m. With the transmitter operating at continuously mode, the turntable was slowly rotated to locate the direction of maximum emission. Once maximum direction is determined, the search antenna was raised and lowered in both vertical and horizontal polarizations.
- 2. The EUT was removed from the turntable and replaced with a linearly polarized antenna connected to a calibrated RF signal generator. The RF generator was set to a measured emission frequency and the search antenna was raised and lowered to produce a maximum received reading. The generator output was increased to match the radiated emission reading measured previously, and the result expressed in dB EIRP or ERP, correcting for substitution antenna gain at each frequency.
- 3.  $\text{Factor} = \text{Antenna Factor} + \text{Cable loss}$ ,  $\text{Margin} = \text{Limit} - \text{Measurement Level}$ .
- 4. The "Factor" value can be calculated automatically by software of measurement system.
- 5. All test modes had been pre-tested. The worst case and recorded in the report.

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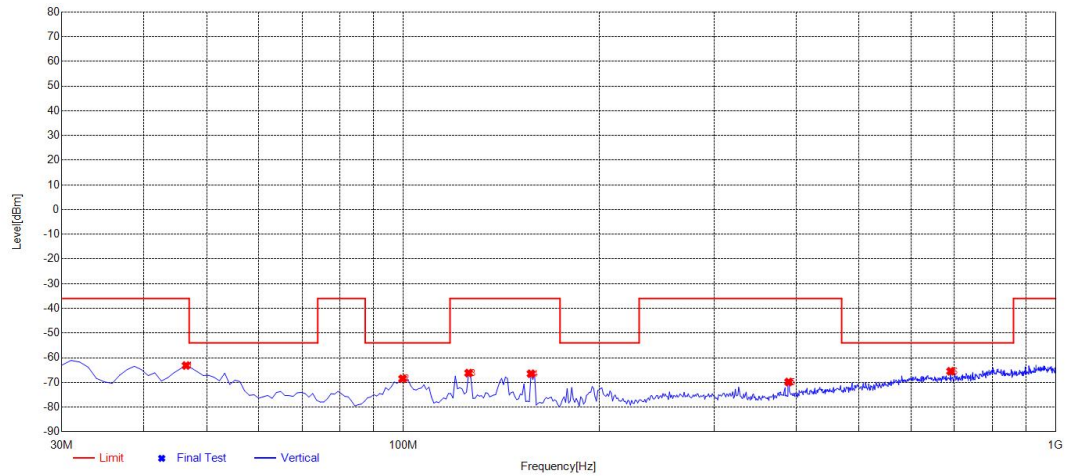
## Test Result



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|            |                         |                 |          |
|------------|-------------------------|-----------------|----------|
| Test mode: | Operating Mode (Mode 3) | Test Frequency: | 127.5kHz |
|------------|-------------------------|-----------------|----------|

### Vertical



| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Factor [dB] | Angle [°] | Polarity |
|-----|-------------|---------------|-------------|-------------|-------------|-------------|-----------|----------|
| 1   | 46.49       | -91.51        | -63.14      | -36.00      | 27.14       | 28.37       | 200       | Vertical |
| 2   | 99.84       | -88.33        | -68.47      | -54.00      | 14.47       | 19.86       | 80        | Vertical |
| 3   | 126.03      | -90.09        | -66.19      | -36.00      | 30.19       | 23.90       | 80        | Vertical |
| 4   | 157.07      | -90.82        | -66.46      | -36.00      | 30.46       | 24.36       | 280       | Vertical |
| 5   | 389.87      | -98.00        | -69.79      | -36.00      | 33.79       | 28.21       | 190       | Vertical |
| 6   | 690.57      | -99.77        | -65.45      | -54.00      | 11.45       | 34.32       | 290       | Vertical |

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## 5.6 Receiver Blocking

### Test Limit

The EUT shall achieve the wanted performance criterion, in the presence of the blocking signal.

|                                          | In-band signal                                                  | OOB signal                 | Remote-band signal                  |
|------------------------------------------|-----------------------------------------------------------------|----------------------------|-------------------------------------|
| Frequency                                | Centre frequency ( $f_c$ ) of the WPT system (see clause 4.3.3) | $f = f_c \pm F$ (see note) | $f = f_c \pm 10 \cdot F$ (see note) |
| Signal level field strength at the EUT   | 72dB $\mu$ A/m                                                  | 72dB $\mu$ A/m             | 82dB $\mu$ A/m                      |
| Note: $F = \text{OFR}$ see clause 4.3.3. |                                                                 |                            |                                     |

### Test Setup

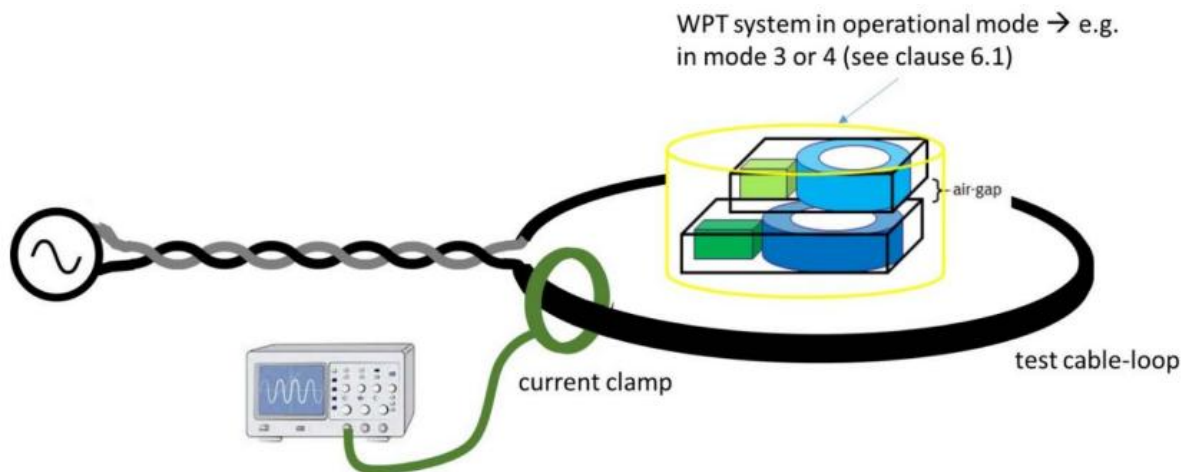


Figure 11: Schematic test set-up for the RX-blocking test

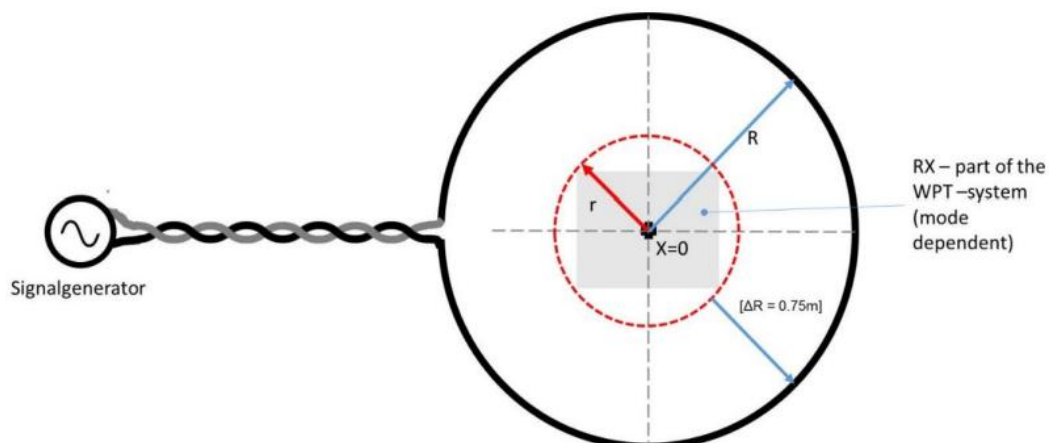


Figure 12: Schematic test set-up for the RX-blocking test

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## Test Procedure

The fulfilment of the WPT system performance criterion in all possible operational modes (see clause 4.2.3) shall be tested in presence of the inference signals according to Table 6.

- The manufacturer shall declare in which device orientation(s) (worst case) the test shall be performed.
- The WPT system shall initially operate without interference according to its specified sensitivity (detecting an specific object in the maximum depth as declared by the manufacturer (see clause 4.2.2 on wanted performance criteria)).
- The test setup is visualized in the following Figures 11 and 12.
- The tool shall be operated as intended (e.g. some tools might require to be moved across the object, some tool can be used stationary).
- The test shall be carried out inside a test chamber according to clauses C.1.1 and C.1.2 in ETSI EN 300 330 [1].
- A test loop with a radius  $r$  shall be used to create the magnetic field; the test loop shall lie on a non-metallic ground and the minimum distance to metallic objects (e.g. ground plane) shall be 0,75 m.
- The EUT shall be placed to the centre of the test-loop (e.g. see Figures 11 and 12).
- The test loop shall be sufficiently large so that the test loop itself does not influence the WPT system; The radius  $R$  of the test-loop shall be in minimum  $\Delta R = 0,75$  m larger than the maximum dimension  $r$  of the EUT.
- (See Figure 12):  $R \geq r + \Delta R$ .
- The maximum H-Field can be calculated from the loop current  $I$  (into the test-loop) with the following formula:

$$H = \frac{I}{2R}$$

## Test Result

☒ Test Mode: Mode 3

| Interference Type  | Test Frequency (kHz) | Signal level @ EUT | Performance      | Result |
|--------------------|----------------------|--------------------|------------------|--------|
| In-band signal     | 127.5                | 72dBuA/m           | No function loss | Pass   |
| OOB signal         | 126.575              | 72dBuA/m           | No function loss | Pass   |
|                    | 128.425              | 72dBuA/m           | No function loss | Pass   |
| Remote-band signal | 118.25               | 82dBuA/m           | No function loss | Pass   |
|                    | 136.75               | 82dBuA/m           | No function loss | Pass   |

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## Appendix I: Photographs of Test Setup

### Radiated Spurious Emissions Below 30MHz Test Setup



### Radiated Spurious Emissions Below 1GHz Test Setup



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**Appendix II: Photographs of Test EUT**

Refer to the Report No.: AGC05443260229AP01

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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 of 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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# Health Test Report

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Report No.: AGC05443260229EH01

**PRODUCT DESIGNATION** : 3in1 foldable charging station

**BRAND NAME** : N/A

**MODEL NAME** : M02521

**APPLICANT** : MID OCEAN BRANDS B.V.

**DATE OF ISSUE** : Apr. 01, 2026

**STANDARD(S)** : EN IEC 62311:2020  
EN 50665:2017

**REPORT VERSION** : V1.0

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**Report Revise Record**

| Report Version | Revise Time | Issued Date   | Valid Version | Notes           |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0           | /           | Apr. 01, 2026 | Valid         | Initial Release |

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## 1. General Information

|                              |                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------|
| Applicant                    | MID OCEAN BRANDS B.V.                                                                |
| Address                      | Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong. |
| Manufacturer                 | MID OCEAN BRANDS B.V.                                                                |
| Address                      | Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong. |
| Factory                      | MID OCEAN BRANDS B.V.                                                                |
| Address                      | Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong. |
| Product Designation          | 3in1 foldable charging station                                                       |
| Brand Name                   | N/A                                                                                  |
| Test Model                   | MO2521                                                                               |
| Series Model(s)              | N/A                                                                                  |
| Difference Description       | N/A                                                                                  |
| Date of receipt of test item | Feb. 26, 2026                                                                        |
| Date of Test                 | Feb. 26, 2026 to Apr. 01, 2026                                                       |
| Deviation from Standard      | No any deviation from the test method                                                |
| Condition of Test Sample     | Normal                                                                               |
| Test Result                  | Pass                                                                                 |
| Test Report Form No          | AGCER-EU-Health/5-V1                                                                 |

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

Prepared By

*Jasiel xie*

Jasiel Xie  
(Project Engineer)

Apr. 01, 2026

Reviewed By

*Bibo Zhang*

Bibo Zhang  
(Reviewer)

Apr. 01, 2026

Approved By

*Angela Li*

Angela Li  
(Authorized Officer)

Apr. 01, 2026

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## 2. Product Information

### 2.1 Product Technical Description

|                           |                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------|
| Product Designation       | 3in1 foldable charging station                                                                                       |
| Test Model                | MO2521                                                                                                               |
| Hardware Version          | V1.0                                                                                                                 |
| Software Version          | V1.0                                                                                                                 |
| Input Rating              | DC 5V/2A, 9V/2A, 9V/3A by Adapter                                                                                    |
| Output Rating             | Wireless Output for Phone: 15W Max.<br>Wireless Output for Earphone: 3W Max.<br>Wireless Output for Watch: 2.5W Max. |
| WPT Technical Parameters  |                                                                                                                      |
| Operation Frequency Range | WPT Band I: 110.5kHz-205kHz (Phone)                                                                                  |
|                           | WPT Band II: 110.5kHz-205kHz ( Earphone)                                                                             |
|                           | WPT Band III: 325kHz-330kHz (Watch)                                                                                  |
| Modulation Type           | ASK                                                                                                                  |
| Antenna Designation       | Coil Antenna                                                                                                         |

**Note:**

1. The above information was declared by the manufacturer.
2. The equipment submitted are representative production models.
3. For more details, please refer to the User's manual of the EUT.

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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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## 4. EN 62311 Requirements for Near Field Measurements

### 4.1 Evaluation Methodology

- This International Standard applies to electronic and electrical equipment for which no dedicated product- or product family standard regarding human exposure to electromagnetic fields applies.
- This generic standard applies to electronic and electrical apparatus for which no dedicated product- or product family standard regarding human exposure to electromagnetic fields applies.
- The frequency range covered is 0 Hz to 300 GHz.
- The object of this generic standard is to provide assessment methods and criteria to evaluate such equipment against basic restrictions or reference levels on exposure of the general public related to electric, magnetic, electromagnetic fields and induced and contact current.

Note: This standard is intended to cover both intentional and non-intentional radiators. If the equipment complies with the requirements in another relevant standard, e.g. EN 62479 covering low power equipment, then the requirements of this standard (IEC 62311) are considered to be met and the application of this standard to that equipment is not necessary.

### 4.2 Measurement limits

According to EN IEC 62311:2020, Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0Hz–300GHz).

#### Annex F Measurement of E and H field

A commonly used probe size is 100 cm<sup>2</sup>, also the contribution of the three axes X, Y and Z can be evaluated separately.

| Frequency Range | E-field Strength (V/m) | H-Field Strength (A/m) | B-Field (uT)         | Equivalent plane Wave Power Density (W/m <sup>2</sup> ) |
|-----------------|------------------------|------------------------|----------------------|---------------------------------------------------------|
| 0-1 Hz          | --                     | $3.2 \cdot 10^4$       | $4 \cdot 10^4$       | --                                                      |
| 1-8 Hz          | 10000                  | $3.2 \cdot 10^4 / f^2$ | $4 \cdot 10^4 / f^2$ | --                                                      |
| 8-25 Hz         | 10000                  | $4000 / f$             | $5000 / f$           | --                                                      |
| 0.025-0.8 kHz   | $250 / f$              | $4 / f$                | $5 / f$              | --                                                      |
| 0.8-3 kHz       | $250 / f$              | 5                      | 6.25                 | --                                                      |
| 3-150 kHz       | 87                     | 5                      | 6.25                 | --                                                      |
| 0.15-1 MHz      | 87                     | $0.73 / f$             | $0.92 / f$           | --                                                      |
| 1-10 MHz        | $87 / f^{1/2}$         | $0.73 / f$             | $0.92 / f$           | --                                                      |
| 10-400 MHz      | 28                     | 0.073                  | 0.092                | 2                                                       |
| 400-2000 MHz    | $1.375 f^{1/2}$        | $0.0037 f^{1/2}$       | $0.0046 f^{1/2}$     | $f / 200$                                               |
| 2-300 GHz       | 61                     | 0.16                   | 0.20                 | 10                                                      |

\*Note:

1. f as indicated in the frequency range column.
2. Provided that basic restrictions are met and adverse indirect effects can be excluded, field strength values can be exceeded.
3. For frequencies between 100 kHz and 10 GHz, S, E2, H2 and B2 are to be averaged over any 6-min period.
4. For peak values at frequencies up to 100 kHz see Table 4, note 3.
5. For peak values at frequencies exceeding 100 kHz see Figs.1 and 2. Between 100 KHz and 10MHz, peak

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values for the field strengths are obtained by interpolation from the 1.5-fold peak at 100 kHz to the 32-fold peak at 10 MHz. For frequencies exceeding 10 MHz it is suggested that the peak equivalent plane wave power density, as averaged over the pulse width, does not exceed 1,000 times the S restrictions, or that the field strength does not exceed 32 times the field strength exposure levels given in the table.

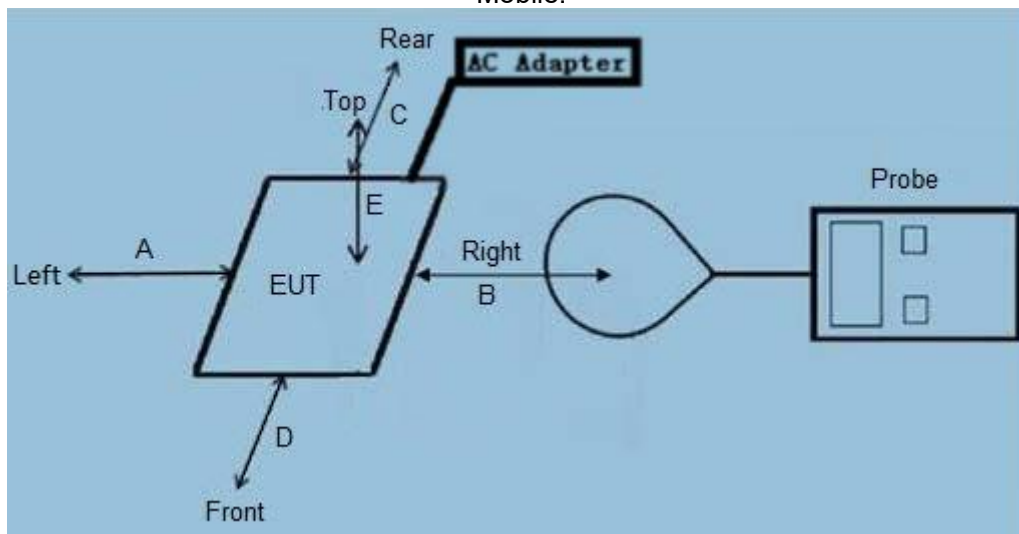
6. For frequencies exceeding 10 GHz, S, E2, H2 and B2 are to be averaged over any  $68/f^{1.05}$  –min period (f in GHz).
7. No E-field value is provided for frequencies < 1 Hz, which are effectively static electric fields, Electric shock from low impedance sources is prevented by established electrical safety procedures for such equipment

#### 4.3 Measurement Method and Arrangement

##### ● Measurement of E and H field

A commonly used probe size is 100 cm<sup>2</sup>, also the contribution of the three axes X, Y and Z can be evaluated separately

Mobile:



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#### 4.4 Test Equipment List

| 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     | 2025-02-19                | 2027-02-18                |
| <input checked="" type="checkbox"/> | AGC-RF-012    | Probe FHP             | WAVECONTROL  | WP400     | J-0015     | 2025-02-19                | 2027-02-18                |

#### 4.5 Measurement Uncertainty

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

| Item                            | Measurement Uncertainty |
|---------------------------------|-------------------------|
| E-Field Strength (0.003-0.4MHz) | $\pm 1.5\text{dB}$      |
| E-Field Strength (0.4-10MHz)    | $\pm 1.3\text{dB}$      |
| H-Field Strength (0.003-0.4MHz) | $\pm 1.3\text{dB}$      |
| H-Field Strength (0.4-10MHz)    | $\pm 1.2\text{dB}$      |

#### 4.6 Description of Test Modes

| No. | Test Mode Description                      | Exposure Conditions |
|-----|--------------------------------------------|---------------------|
| 1   | AC/DC Adapter + EUT + Wireless load (15W)  | Mobile              |
| 2   | AC/DC Adapter + EUT + Wireless load (3W)   | Mobile              |
| 3   | AC/DC Adapter + EUT + Wireless load (2.5W) | Mobile              |
| 4   | AC/DC Adapter + EUT + Wireless load (0W)   | Mobile              |
| 5   | AC/DC Adapter + EUT + Wireless load (10W)  | Mobile              |
| 6   | AC/DC Adapter + EUT + Wireless load (5W)   | Mobile              |

Note:

1. All modes have been tested and only the worst mode test data recorded in the test report.

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#### 4.7 Test Result

##### WPT Band I (Mobile phone):

| Mode Description | Test Frequency (kHz) | Maximum Radiated H-Field at 20cm (A/m) |       | Limit (A/m) | Result |
|------------------|----------------------|----------------------------------------|-------|-------------|--------|
| Mode 1           | 127.8                | Position A                             | 0.079 | 5           | Pass   |
|                  |                      | Position B                             | 0.066 |             |        |
|                  |                      | Position C                             | 0.071 |             |        |
|                  |                      | Position D                             | 0.069 |             |        |
|                  |                      | Position E                             | 0.065 |             |        |

Since Radiated H-Field at worse case is 0.079A/m which cannot exceed the exempt condition, 5A/m. It is deemed to full fit the requirement of RF exposure basic restriction specified in EC Council Recommendation (1999/519/EC).

##### WPT Band II (Earphone):

| Mode Description | Test Frequency (kHz) | Maximum Radiated H-Field at 20cm (A/m) |       | Limit (A/m) | Result |
|------------------|----------------------|----------------------------------------|-------|-------------|--------|
| Mode 3           | 126.5                | Position A                             | 0.071 | 5           | Pass   |
|                  |                      | Position B                             | 0.068 |             |        |
|                  |                      | Position C                             | 0.063 |             |        |
|                  |                      | Position D                             | 0.060 |             |        |
|                  |                      | Position E                             | 0.051 |             |        |

Since Radiated H-Field at worse case is 0.071A/m which cannot exceed the exempt condition, 5A/m. It is deemed to full fit the requirement of RF exposure basic restriction specified in EC Council Recommendation (1999/519/EC).

##### WPT Band III (Watch):

| Mode Description | Test Frequency (kHz) | Maximum Radiated H-Field at 20cm (A/m) |       | Limit (A/m) | Result |
|------------------|----------------------|----------------------------------------|-------|-------------|--------|
| Mode 4           | 325                  | Position A                             | 0.066 | 2.25        | Pass   |
|                  |                      | Position B                             | 0.061 |             |        |
|                  |                      | Position C                             | 0.062 |             |        |
|                  |                      | Position D                             | 0.051 |             |        |
|                  |                      | Position E                             | 0.049 |             |        |

Since Radiated H-Field at worse case is 0.066A/m which cannot exceed the exempt condition, 2.25A/m. It is deemed to full fit the requirement of RF exposure basic restriction specified in EC Council Recommendation (1999/519/EC).

#### 4.8 Evaluation Conclusion

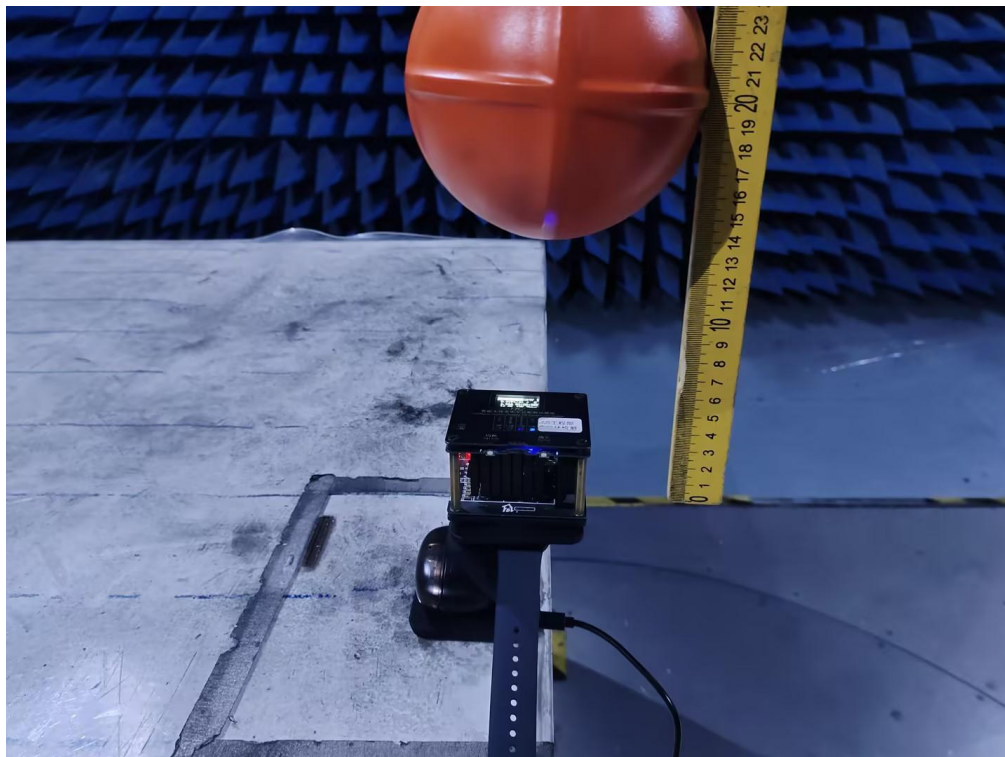
Remark: EUT meets the basic requirements in the standard.

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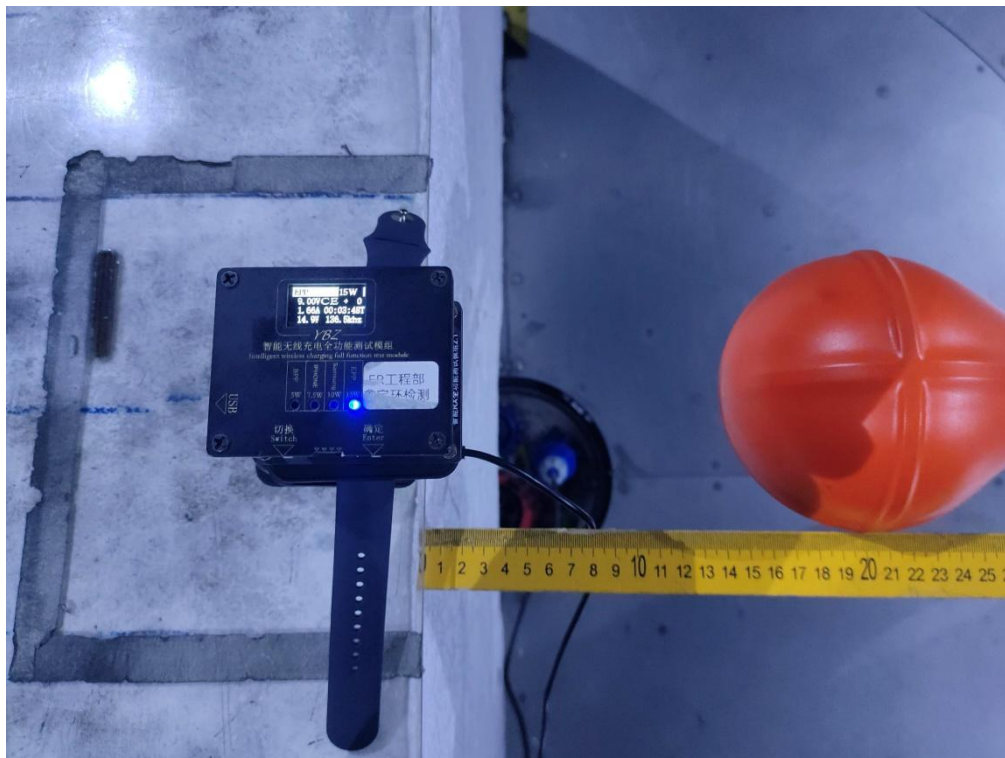
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## Appendix I: Photographs of Test Setup

Measure Position E



Measure Position A



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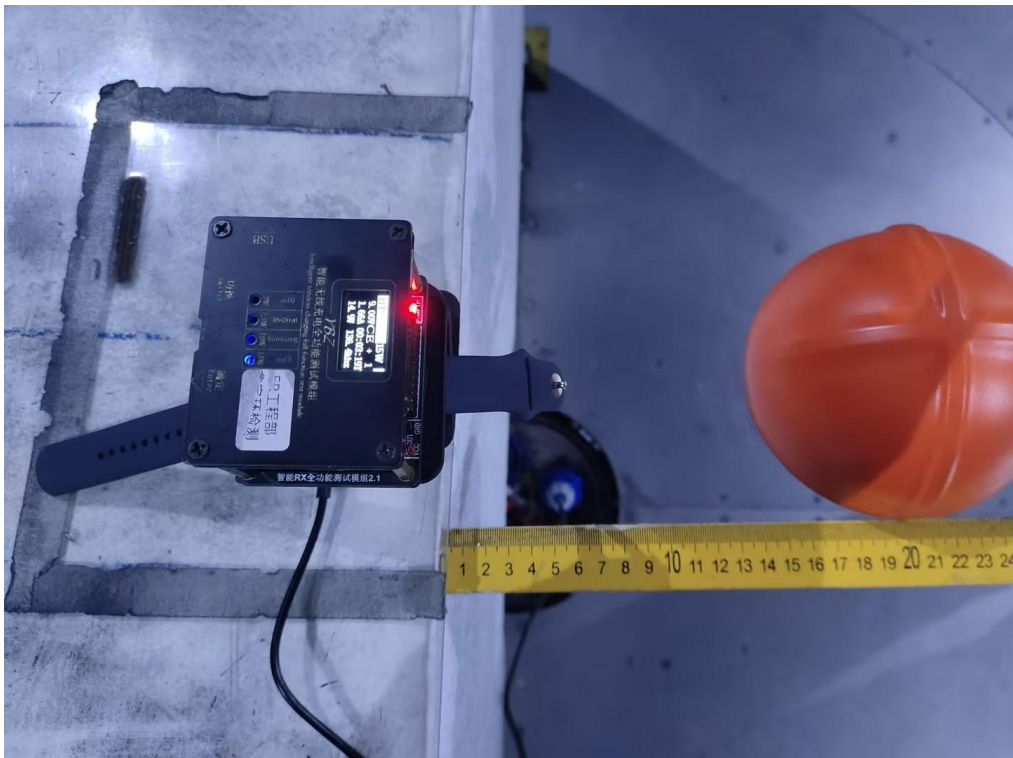
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Measure Position B

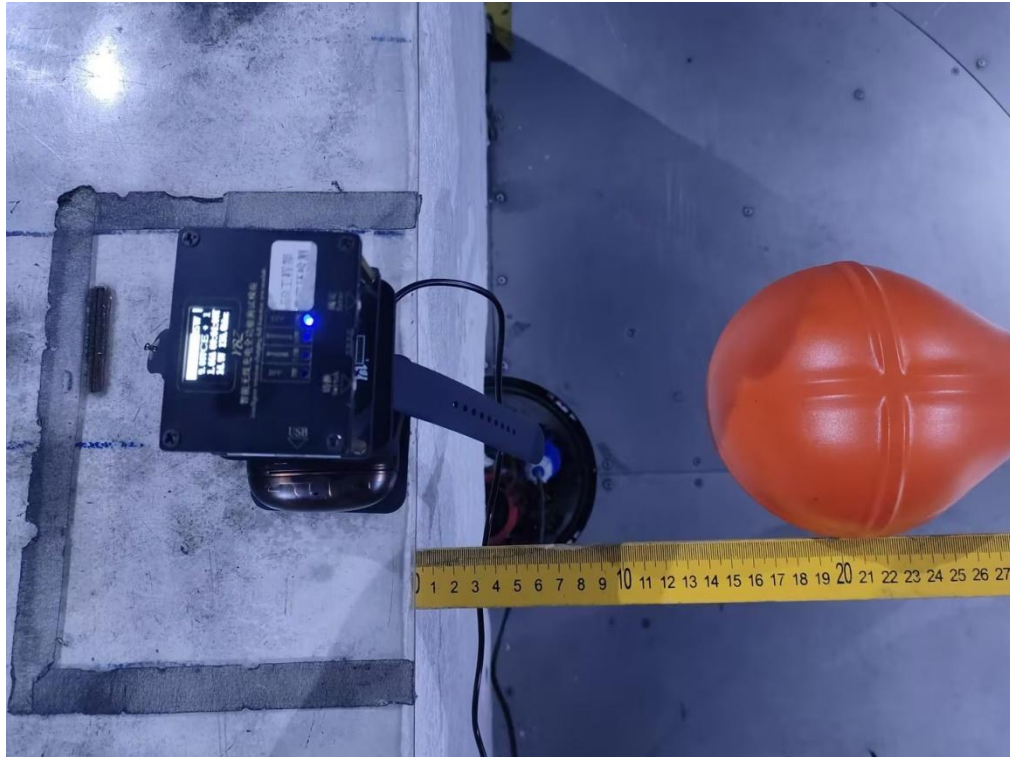


Measure Position C



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Measure Position D



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

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

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by [agc01@agccert.com](mailto:agc01@agccert.com).

Attestation of Global Compliance(Shenzhen)Co., Ltd

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