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# **RF Test Report**

## Report No.: AGC04094180501EE17

PRODUCT DESIGNATION	mplifer	Aluminum wireless charger
BRAND NAME	Ģ	N/A
MODEL NAME	in ation	P308.89
MANUFACTURER	este	Xindao B.V.
DATE OF ISSUE	:	May 21, 2018
STANDARD(S)	;	ETSI EN 303 417 V1.1.1(2017-09)
REPORT VERSION	:,	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		May 21, 2018	Valid	Initial Release

## **Report Revise Record**

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#### **1. TEST RESULT CERTIFICATION**

Manufacturer	Xindao B.V.
Address	P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands
Factory	Xindao B.V.
Address	P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands
Product Designation	Aluminum wireless charger
Brand Name	N/A
Test Model	P308.89
Date of test	May 17, 2018 to May 21, 2018
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-EC-RF

The above equipment was tested by SHENZHEN ATTESTATION OF GLOBAL COMPLIANCE (SHENZHEN) CO., LTD. for compliance with the requirements set forth in the European Standard ETSI EN 303 417 V1.1.1. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested by

Nox 2han

Max Zhang(Zhang Yi)

May 21, 2018

Reviewed by

BONG SE

Bart Xie(Xie Xiaobin)

May 21, 2018

Formesto cen

Approved By

Forrest Lei(Lei Yonggang)

May 21, 2018

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#### 2. EUT DESCRIPTION

Details of technical specification refer to the description in follows:

V1.1
V1.0
110-205KHz
156KHz
1 Channel
Integral antenna
Mode 3: communication Mode 4: energy transmission
DC 5V (Worst case)

NOTE: For more information, please refer to User's Manual.

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#### **3. DESCRIPTION OF TEST ITEMS**

	Harmonised Standard ETSI EN 303 417					
	Requirement	Requirement Conditionality				
No	Description					
	Permitted range of operating frequencies	Applicable 🗌 Not Applicable				
2	Operating frequency ranges	Applicable 🗌 Not Applicable				
3	H-field requirements	Applicable 🗌 Not Applicable				
4	Transmitter spurious emissions	Applicable 🗌 Not Applicable				
5	Transmitter out of band (OOB) emissions	Applicable 🗌 Not Applicable				
6	WPT system unwanted conducted emissions	Applicable 🛛 Not Applicable				
7 <sub>©</sub>	Receiver blocking	Applicable D Not Applicable				

#### **4. TEST FACILITY**

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	B112-B113, Building 12, Baoan Building Materials Center, No.1 of Xixiang Inner
Location	Ring Road, Baoan District, Shenzhen, Guangdong, P.R.China

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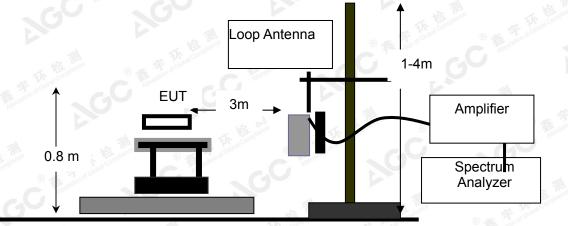
#### 5. ETSI EN 303 417 REQUIREMENT

#### 5.1 TRANSMITTER H-FIELD REQUIREMENTS

#### MEASUREMENT EQUIPMENT USED:

NAME OF EQUIPMENT	MANUFACTURER	MODEL	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	100096	June. 29, 2017	June. 28, 2018
Amplifier	EM	EM30180	060552	June. 29, 2017	June. 28, 2018
LOOP ANTENNA	A.H.	SAS-526B	G	Mar. 01, 2018	Feb. 28, 2020

#### **TEST SETUP:**



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#### TEST LIMITS:

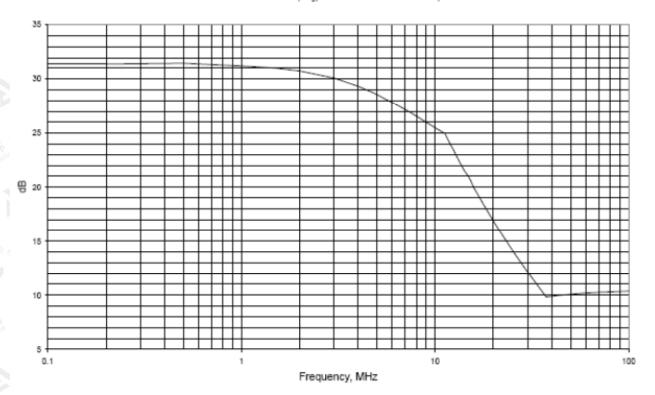
The H-field limit in dB $\mu$ A/m at 3 m, H<sub>3m</sub>, is determined by the following equation:

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

Where: H<sub>10m</sub> is the H-field limit in dBµA/m at 10 m distance according to the present document; and C<sub>3</sub> is a conversion factor in dB determined from figure F.2.

The limit at 10 m( $H_{10m}$ ) is -5dBµA/m.

Owing to the frequency EUT is 156kHz, so the C<sub>3</sub> approach to 31.5dB.



Correction factor, C3, for limits at 3 m distance, dB

Figure F.2: Conversion factor C<sub>3</sub> versus frequency

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#### **TEST PROCEDURE:**

The EUT was placed on the top of an insulating table 0.8 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 Table 11.

The EUT operate with modulation under normal and extreme conditions.

#### TEST RESULTS:

Test Mode: Mode 4(worst case)

Extreme conditions state

conditions	Test Temp	Test Volt.(V)	Note
TN/VN	<b>25</b> ℃	5.0	Worst case
TL/ VL	<b>-10</b> ℃	4.5	<u> </u>
TH/VL	<b>45</b> ℃	4.5	
TL/VH	-10℃	5.5	The Handlance
TH/VH	<b>45</b> ℃	5.5	(B) # 4 of Clobal C

#### Test results tested at 3m test sites:

Freq.	Antenna Factor	Reading Level	Corrected Level	Limit (dBuA/m)	
(MHz)	(dB/m)	(dBuA)	(dBuA/m)		
0.156	23.54	-11.29	12.25	26.5	

#### Test results calculated to 10m test sites:

Freq.	Antenna Factor	Reading Level	Corrected Level		
(MHz)	(dB/m)	(dBuA)	(dBuA/m)		
0.156	23.54	-40.96	-17.42	5 C	

Remark:

(1) (2)

(3)

- Corrected Level (dBuA/m) = Reading Level + Antenna Factor
- For the calculated method, please refer to Annex F at EN 300330.
- All extreme conditions were considered for test, but only record the worst case.

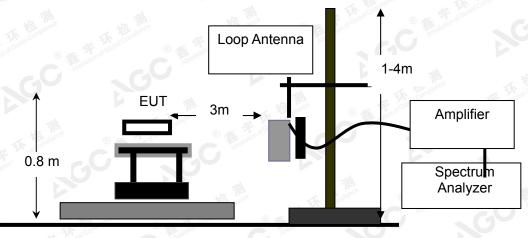
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#### 5.2 OPERATING FREQUENCY RANGES MEASUREMENT EQUIPMENT USED:

	The souph		a and the star		
NAME OF EQUIPMENT	MANUFACTURER	MODEL	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	100096	June. 29, 2017	June. 28, 2018
Amplifier	EM	EM30180	060552	June. 29, 2017	June. 28. 2018
LOOP ANTENNA	A.H.	SAS-526B	of clobal - C Alter	Mar. 01, 2018	Feb. 28, 2020

#### TEST SETUP:



#### TEST PROCEDURE:

1). The EUT was placed on a turn table which is 0.8m 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, fH is the frequency of the upper marker resulting from the OFR, fL is the frequency of the lower marker resulting from the OFR.
4), Both normal test condition and extreme test condition applied

#### LIMITS

The operating frequency range for emissions shall be within one of the following limits: 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz.

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#### **TEST RESULT**

Test Mode: Mode 4(worst case)

		- I - Mar	. <b>.</b>	
Test Temperature	Test Voltage (V DC)	Upper Frequency (kHZ)	Lower Frequency (kHZ)	Limit
- <b>10</b> ℃	5.0	155.50153	156.50185	100kHz≪&≪300kHz
-100	5.5	155.50603	156.50628	100kHz≪&≪300kHz
<b>25</b> ℃	5.0	155.50558	156.50423	100kHz≪&≪300kHz
AF°O	4.5	155.50429	156.50841	100kHz≪&≪300kHz
<b>45</b> ℃	5.5	155.50428	156.50269	100kHz≪&≪300kHz
Res	ults	J		PASS
			10-	

Frequency Range Test Result

**NOTE:** All the modes had been tested, but only the worst data recorded in the report.

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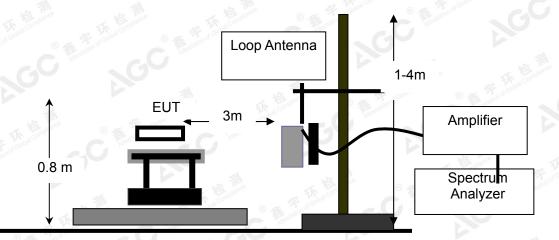


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#### 5.3 TRANSMITTER OUT OF BAND (OOB) EMISSIONS MEASUREMENT EQUIPMENT USED:

				51 101	Alle
NAME OF EQUIPMENT	MANUFACTURER	MODEL	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	100096	June. 29, 2017	June. 28, 2018
Amplifier	EM	EM30180	060552	June. 29, 2017	June. 28, 2018
LOOP ANTENNA	A.H.	SAS-526B	of Goba C	Mar. 01, 2018	Feb. 28, 2020

#### TEST SETUP:



#### TEST PROCEDURE:

1). The EUT was placed on a turn table which is 0.8m 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, fH is the frequency of the upper marker resulting from the OFR, fL is the frequency of the lower marker resulting from the OFR.

4), Both normal test condition and extreme test condition applied

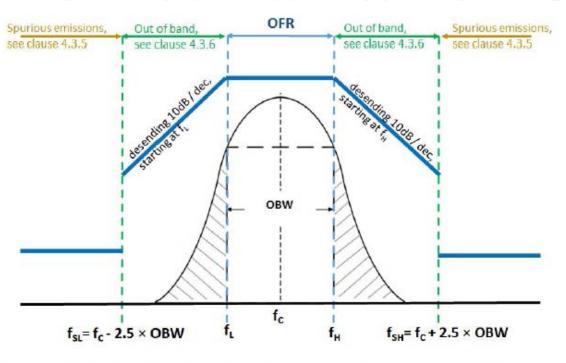
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#### LIMITS

The OOB limits are visualized in figures; they are descending from the intentional limits from Table 3 at fH/fL with 10 dB/decade.



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

#### TEST RESULT

Test Mode: Mode 4	4(worst case) ency range (KHz)	Limit(dbuA/m)	Result
fSL -fL	153.5KHz-155.5KHz	See figure 4	Pass
GO fL	155.5KHz	26.5	Pass
fH	156.5KHz	26.5	Pass
fH - fSH	156.5KHz-158.5KHz	See figure 4	Pass

**NOTE:** All the modes had been tested, but only the worst data recorded in the report.

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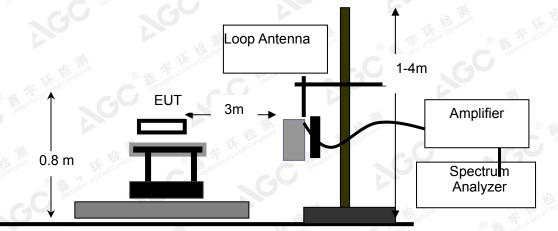
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#### 5.4 TRANSMITTER SPURIOUS EMISSIONS MEASUREMENT EQUIPMENT USED:

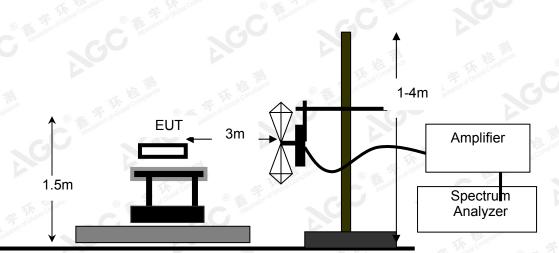
				ASP AD	Alle
NAME OF EQUIPMENT	MANUFACTURER	MODEL	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	100096	June. 29, 2017	June. 30, 2018
Amplifier	EM	EM30180	060552	June. 29, 2017	June. 30, 2018
LOOP ANTENNA	A.H.	SAS-526B	of Global Contraction of Global	Mar. 01, 2018	Feb. 28, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Mar. 01, 2018	Feb. 28, 2020

#### **TEST SETUP:**

FREQUENCY RANGE (9KHZ-30MHZ)



#### FREQUENCY RANGE (ABOVE 30MHZ)

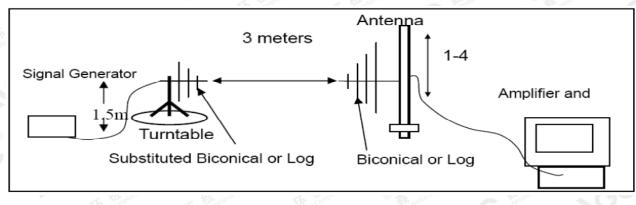


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#### SUBSTITUTION METHOD:

#### RADIATED BELOW 1GHZ



#### TEST PROCEDURE:

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

The EUT was placed on the top of an insulating table 0.8 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 Table 1.

#### 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.

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#### LIMITS OF RADIATED DISTURBANCES

Below 30MHz

#### Table 4

State (see	note)	Frequency 9 kHz ≤ f < 10 MHz	Frequency 10 MHz ≤ f < 30 MHz		
Operating		27 dBµA/m at 9 kHz descending	-3,5 dBµA/m		
		10 dB/dec			
Standby		5,5 dBμA/m at 9 kHz descending	-25 dBμA/m		
		10 dB/dec			
NOTE: "Operating" means mode 2, 3 and 4 according to Table 2; "standby" means mode 1					
a	according	to Table 2.	-		

#### Table 5

State (see note)	47 MHz to 74 MHz 87,5 MHz to 118 MHz 174 MHz to 230 MHz 470 MHz to 790 MHz	Other frequencies between 30 MHz to 1 000 MHz				
Operating	4 nW	250 nW				
Standby	2 nW	2 nW				
NOTE: "Operating" means mode 2, 3 and 4 according to Table 2; "standby" means mode 1 according to Table 2.						

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#### **TEST LIMITS & RESULT**

#### Test Mode: Mode 4(worst case) FREQUENCY RANGE (9KHZ-30MHZ)

J.			OF	PERATION MODE		
	Frequency	Reading level	Total Factor	Emission level	10M Limit	Margin
	(MHz)	(dBµA/m)	(dB )	(dB µA/m)	(dBµA/m)	(dBµA/m)
	The the property	· ·		d <sup>1</sup> C <sup>2</sup> C <sup>1</sup>	27 dBµA/m at 9KHz	
©	Freshlor of Global	C The state of Constant		60-	descending 10dB/dec (9KHz – 10MHz)	
					-3.5 dBµA/m(10MHz –	
					30MHz)	CC Meet

#### Remark:

(1) Corrected Power (dBm) = Total Factor + Reading Level (2)

Measuring frequencies from 9KHz to the 30MHz.

(3)

Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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#### FREQUENCY RANGE (ABOVE 30MHZ)

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuv/m)	Polarization	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
79.12	31.96	V	-60.23	0.04	-0.30	-60.57	-36.00	24.57
106.92	28.94		-64.34	0.04	0.92	-63.46	-54.00	9.46
291.58	27.51	V-V	-72.36	0.18	6.48	-66.05	-36.00	30.05
306.84	29.04	V	-71.50	0.19	6.76	-64.94	-36.00	28.94
512.73	30.45	V	-68.41	0.43	6.66	-62.17	-54.00	8.17
687.45	27.66	V	-72.23	0.56	6.47	-66.32	-54.00	12.32
C E T	of Global	F al Clobal CC	tation of Close	C.C		30		
85.69	32.13	н С	-61.28	0.04	0.70	-60.62	-36.00	24.62
99.54	26.94	Н	-68.04	0.04	1.40	-66.68	-54.00	12.68
249.62	28.71	Н	-71.90	0.13	7.06	-64.96	-36.00	28.96
369.84	29.18	H Frod Global	-69.61	0.27	6.62	-63.26	-36.00	27.26
414.55	30.28	СН	-69.71	0.32	6.92	-63.11	-36.00	27.11
615.81	28.15	ЭН	-70.62	0.50	6.70	-64.43	-54.00	10.43

#### Transmitter Spurious Emission below 1GHz (30MHz-1GHz)

Note: 1.The margins of the other spectrum are not exceeding the minimum value of margin, and this part of the results without recording in the test report.

2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "--" remark, if no specific emission from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

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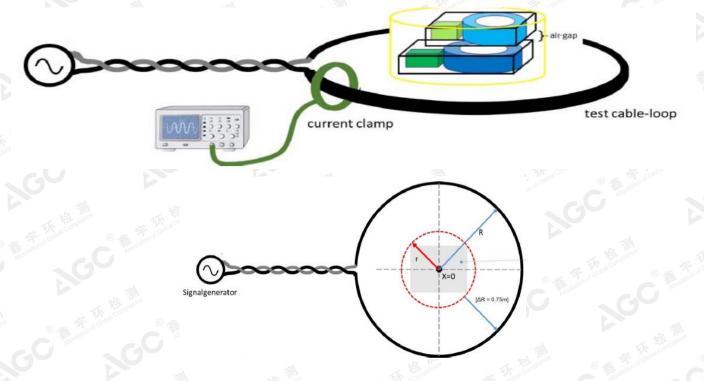
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#### **5.5 RECEIVER BLOCKING**

#### **MEASUREMENT EQUIPMENT USED:**

NAME OF EQUIPMENT	MANUFACTURER	MODEL	S/N	Cal. Date	Cal. Due
MXG X-Series Vector Signal Generator	Agilent	N5182B	N/A	Sep. 21, 2017	Sep. 20, 2018
LOOP ANTENNA	LAPLACE	RF300	N/A	Mar. 01, 2018	Feb. 28, 2020
Clamp meter	PROVA	PROVA-11	17200101	Oct. 09, 2017	Oct. 08, 2018

TEST SETUP:



#### TEST PROCEDURE:

1). 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 2). 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

3). 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.

 $R \ge r + \Delta R$ .

The maximum H-Field can be calculated from the loop current I (into the test-loop) with the following formula: H=I/2R

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4) The required output current to achieve the required magnetic field at the WPT system shall be generated with a signal generator (unmodulated signal) at the test frequencies. For each test frequency the "reaction" of the device shall be recorded and checked against the performance criterion

#### LIMITS

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

## Table 6: Receiver blocking limits

	In-band signal	OOB signal	Remote-band signal		
Frequency	Centre frequency (f <sub>c</sub> ) of the WPT	f = f <sub>c</sub> ± F (see note)	f = f <sub>c</sub> ± 10 × F (see note)		
	system (see clause 4.3.3)				
Signal level field strength at	72 dBµA/m	72 dBµA/m	82 dBµA/m		
the EUT	-	-	-		
NOTE: F = OFR see clause 4.3.3.					

## TEST RESULT

Test Mode: Mode 3	A Starting	C the populate C the son of Cu	S and a station of the second
Test Frequency(KHz)		Performance	Result
In-band signal	156	No function loss	Pass
OOB signal	155	No function loss	Pass
COD signal	157	No function loss	Pass
Remote-band	146	No function loss	Pass
signal	166	No function loss	Pass

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#### **6. INTERPRETATION OF MEASUREMENT RESULTS**

All the measurement equipments and accessories have been carefully selected to meet the maximum measurement uncertainty specified below:

± 1 x 10 <sup>-7</sup>
± 0.75dB
± 5% ± 3dB
± 3dB
± 4dB
± 3dB
± 6dB

P.S. Uncertainty figures are valid to confidence level of 95% calculated according to the methods described in the ETSI TR 100 028.

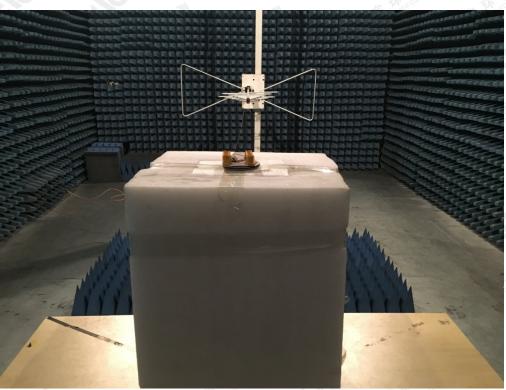
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#### **APPENDIX 1: PHOTOGRAPHS OF TEST SETUP**



----END OF REPORT----

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