

TEST REPORT

Report Number: 15438318-E3V1

Applicant : BORA Vertriebs GmbH Co. KG
Innstrasse 1,
Niederndorf, 6342, Austria

Model : XPURENA

FCC ID : 2BK2HXPURE

EUT Description : INDUCTION COOKTOP

Test Standard(s) : FCC 47 CFR PART 1 SUBPART I
FCC 47 CFR PART 2 SUBPART J

Date Of Issue:
2025-03-18

Prepared by:
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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	2025-03-18	Initial Issue	---

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: BORA Vertriebs GmbH Co. KG
Innstrasse 1,
Niederndorf, 6342, Austria

EUT DESCRIPTION: INDUCTION COOKTOP

MODEL NUMBER: XPURENA

BRAND: BORA

SERIAL NUMBER: 2411JA3609

SAMPLE RECEIPT DATE: 2024-12-10

DATE TESTED: 2025-03-12 TO 2025-03-13

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR PART 1 SUBPART I & PART 2 SUBPART J	Complies

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.

Approved & Released For
UL Verification Services Inc. By:



Francisco de Anda
Staff Engineer
Consumer Technology Division
UL Verification Services Inc.

Reviewed By:



Tina Chu
Senior Project Engineer
Consumer Technology Division
UL Verification Services Inc.

2. TEST METHODOLOGY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

All testing / calculations were made in accordance with.

- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 447498 D03 Supplement C Cross-Reference v01
- FCC KDB 680106 D01 Wireless Power Transfer v04
- FCC Parts 1.1310, 2.1091, IEEE Std C95.1-2005, IEEE Std C95.3-2002

3. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
<input type="checkbox"/>	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
<input type="checkbox"/>	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
<input type="checkbox"/>	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
<input checked="" type="checkbox"/>	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
<input type="checkbox"/>	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

4. DECISION RULES AND MEASUREMENT UNCERTAINTY (RF EXPOSURE)

4.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

4.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U_{Lab}
Magnetic Field Reading (A/m)	+/-0.3 dB
Electric Field Reading (V/m)	+/-0.3 dB

Uncertainty figures are valid to a confidence level of 95.45%.

5. SUMMARY OF EUT RF EXPOSURE INFORMATION

Requirement	Device
(1) The power transfer frequency is below 1 MHz.	Yes. 25kHz to 65kHz
(2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.	No. The maximum power is 3kW.
(3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)	Yes. The client device is placed directly in contact with the transmitter.
(4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).	Yes. EUT is mobile only.
(5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.	No. Refer to Section 8.2 Worst E- Field: 97.23% (80.7V/m) Worst H-field: 6.99% (6.29A/m)
(6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.	Yes. The system has four individual heating plates and allows for capable energy transfer simultaneously for four clients.

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The EUT is an induction 36" cooktop with four heating elements and centrally located vent.

6.2. SOFTWARE AND FIRMWARE

The firmware version installed in the EUT during testing was 4.29

6.3. WORST-CASE CONFIGURATION AND MODE

Direct contact only and using ferromagnetic material pans filled with water as load for testing at 20cm away from the enclosure of the EUT at point a. Configuration 2 E-field has some locations with extra points b, c, d, e measured per testing guidance from FCC approved ECR (Spatial Averaging Testing).

Measurement at Top/bottom of the heating plates are not tested due to uncommon scenario. Pan size does not influence the output power as the plates have no multizone detection.

EUT is mobile device. The following 36" cooktop configurations were tested as worst-case:

Config	Description	Freq/ distance/ Location	Test Mode
1	The following pan size (Rx load) is used for testing for each plate (Tx coil) when pan is placed at center of the plate.	25kHz to 65kHz/ 20cm/ S1-S4	Plate 2 heating 220mm pan at max power. Plate 2 results cover Plate 1, 3 and 4 due to plate to end user distance are symmetric and heating elements are identical.
2	<ul style="list-style-type: none"> •220mm Plate 1: Pan inner diameter 220mm •220mm Plate 2: Pan inner diameter 220mm •220mm Plate 3: Pan inner diameter 220mm •220mm Plate 4: Pan inner diameter 220mm 		All plates activated simultaneously at max power. <ul style="list-style-type: none"> - Plate 1 heating 220mm pan at max power. - Plate 2 heating 220mm pan at max power. - Plate 3 heating 220mm pan at max power. - Plate 4 heating 220mm pan at max power.
3	Smallest 140mm pan size (Rx load) is misaligned with the plate on the largest plate 220mm (Tx coil, biggest exposure area, highest power) at the worst functioning position.		Plate 2 heating 140mm pan at max power.
4	Smallest 140mm pan size (Rx load) is placed at the center of the largest plate 220mm (Tx coil, biggest exposure area, highest power).		Plate 2 heating 140mm pan at max power.

7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was used for the tests documented in this report:

Test Equipment List					
Description	Manufacturer	Model	Label ID	Cal Due	Cal Date
Near-field Electric and Magnetic Field Sensor System	SPEAG Schmid & Partner Engineering AG	MAGPy-8H3D+E3d	235867	2025-09-30	2024-09-18
Thermometer - Digital	Control Company	14-650-118	168574	2025-05-31	2024-05-23

8. MAXIMUM PERMISSIBLE RF EXPOSURE

8.1. FCC LIMITS

According to KDB 680106 D01 Wireless Power Transfer v04 section 3.2: consistent with FCC's equipment authorization RF exposure guidance, any device (both portable and mobile) operating at frequencies below 100 kHz is considered compliant for the purpose of equipment authorization when the external (unperturbed) temporal peak field strengths do not exceed the following reference levels:

83 V/m for the electric field strength (E); 90 A/m for the magnetic field strength (H).

Spatial Averaging Testing:

Measures E-field at points a, b, c, d, e on Z2 axis(refer to 15438318-EP3, section 2.2, Figure 2), vertically moving up/down from point "a" with 20cm separation distance.

Sum(a, b, c, d, e) / 5= result. Compare this to the applicable MPE limit (in percentage).

Example:

Configuration 2, Plate 1, side 1:

$$= \{(90.4 + 33.9 + 73 + 26.7 + 13.4)/5\} / 83 \times 100\%$$

$$= \{47.48/83\} \times 100\%$$

$$= 57.20\%$$

8.2. E- FIELD AND H- FIELD MEASUREMENTS AND SUMMARY

RESULT

Note: Peak measurements were performed.

Test Engineer:	27957 CC	Test Date:	2025-03-12 TO 2025-03-13
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Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit (V/m)	Electric Field Reading (V/m)				Magnetic Field Limit (A/m)	Magnetic Field Reading (A/m)									
				FCC	Location	Point	Peak Percentage (%)		FCC	Location	Point	Peak Percentage (%)						
1	Heating on with 22cm pan on plate 2 (pan at the center of heating plate). This also covers Plate 1, 3 and 4 since same distance/plate size.	20	83	S1	a	16.800	20.24%	90	S1	a	4.040	4.49%						
				S2	a	13.400	16.14%		S2	a	2.630	2.92%						
				S3	a	70.500	84.94%		S3	a	1.070	1.19%						
				S4	a	72.800	87.71%		S4	a	1.840	2.04%						
2	Heating on with 22cm pan on plate 1	20	83	S1	a	90.400	57.20%	90	S1	a	3.260	3.62%						
					b	33.900												
					c	73.000												
					d	26.700												
					e	13.400												
				S2	a	39.400	47.47%		S2	a	2.220	2.47%						
					a	89.700	58.26%			a	3.450	3.83%						
					b	42.700												
					c	78.400												
					d	21.000												
	Heating on with 22cm pan on plate 2				S3	e	9.980		57.35%	S4	a	1.750	1.94%					
						a	47.600				a	3.260	3.62%					
						a	90.400		57.20%		S1	a	3.260	3.62%				
						b	33.900											
						c	73.000											
						d	26.700											
						e	13.400											
					S2	a	39.500		47.59%	S2	a	1.590	1.77%					
	Heating on with 22cm pan on plate 3					a	89.700		58.26%		S3	a	3.450	3.83%				
						b	42.700											
						c	78.400											
						d	21.000											
						e	9.980											
	S4			a	42.000	50.60%	S4		a	1.930	2.14%							
				a	80.700	97.23%			S1	a	3.140	3.49%						
				a	39.500	47.59%				a	1.590	1.77%						
	Heating on with 22cm pan on plate 4				S3	a			93.000	64.27%			S3	a	3.940	4.38%		
						b			56.300									
						c			80.300									
						d			26.900									
						e			10.200									
					S4	a			42.000	50.60%	S4	a	1.930	2.14%				
						a			80.700	97.23%	S1	a	3.140	3.49%				
						a			39.400	47.47%	S2	a	2.220	2.47%				
3	Heating on with 14cm pan on plate 2 (pan misaligned with heating plate, position at the worst misaligned but functioning position)	20	83	90	S3	a			93.000	64.27%			S3	a	3.940	4.38%		
						b			56.300									
						c			80.300									
						d			26.900									
						e			10.200									
4	Heating on with 14cm pan on plate 2 (pan at the center of heating plate)	20	83	90	S4	a			47.600	57.35%	S4	a	1.750	1.94%				
						a			17.600	21.20%	S1	a	3.610	4.01%				
						a			15.700	18.92%	S2	a	2.280	2.53%				
						a			71.400	86.02%	S3	a	6.290	6.99%				
						a			26.500	31.93%	S4	a	3.930	4.37%				
					S1	a			17.600	21.20%	90	S1	a	3.670	4.08%			
						a			7.340	8.84%			S2	a	1.160	1.29%		
						a			39.800	47.95%			S3	a	3.450	3.83%		
						a			27.000	32.53%			S4	a	2.100	2.33%		

9. RF EXPOSURE TEST SETUP AND SETUP PHOTO

Please see description of RF exposure test up and setup photo report 15438318-EP3

END OF REPORT