

Prüfbericht-Nr.: <i>Test report no.:</i>	CN2580C3 003	Auftrags-Nr.: <i>Order no.:</i>	170419036	Seite 1 von 10 <i>Page 1 of 10</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	--	Auftragsdatum: <i>Order date:</i>	2025-05-12	
Auftraggeber: <i>Client:</i>	Infinite Machine Technologies, Inc. 5-37 46th Ave Long Island City New York 11101 USA			
Prüfgegenstand: <i>Test item:</i>	Electric Bike			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	Olto			
Auftrags-Inhalt: <i>Order content:</i>	TÜV Rheinland RF test report			
Prüfgrundlage: <i>Test specification:</i>	47 CFR FCC Part 2.1091 FCC KDB Publication 447498 D01 v06			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2025-10-21	Please refer to photo documents		
Prüfmuster-Nr.: <i>Test sample no:</i>	A004118798-001			
Prüfzeitraum: <i>Testing period:</i>	2025-10-25 to 2025-11-15			
Ort der Prüfung: <i>Place of testing:</i>	Refer to section 2.1			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Guangdong) Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>			genehmigt von: <i>authorized by:</i>	
Datum: <i>Date:</i>	2026-04-28	Signed by: Joe Chen	Ausstellungsdatum: <i>Issue date:</i>	2026-04-28 Signed by: Amy Wang
Stellung / Position:	Project Engineer		Stellung / Position:	Authorizer
Sonstiges / <i>Other:</i>	This report was only evaluated BLE RF characteristics of the product. FCC ID: 2BU45OLTO1			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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TEST SUMMARY

3.1.1 RF EXPOSURE COMPLIANCE
RESULT: Pass

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1. TEST SITES

1.1 TEST FACILITIES

TUV RHEINLAND (GUANGDONG) LTD.

Address: 1/F. &2/F., Building B, No.767 Tianyuan Road, Tianhe District, Guangzhou 510650, Guangdong, People's Republic of China

FCC Registration No.: CN1207

ISED wireless device testing laboratory: 2932C

1.2 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

1.3 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

1.4 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendixes of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

1.5 Status of Facility Used for Testing

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory. 1&2/F, Building B, No.767 Tianyuan Road, Tianhe District, Guangzhou, Guangdong, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

2. GENERAL PRODUCT INFORMATION

2.1 GENERAL DESCRIPTION

The EUTs (Equipment Under Test) Olto is an Electric Bicycle for riding and similar use which support Bluetooth and NFC wireless function

All tests were performed on one representative model Olto.

For details refer to the User Manual, Technical Description and Circuit Diagram.

2.2 RATING AND SYSTEM DETAILS

Table 1: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Electric Bicycle
Type Designation:	Olto
Trademark:	INFINITE MACHINE
FCC ID:	2BU45OLTO1
Operating Voltage:	Power Battery (OT01): DC 50.4V, 25.0AH, 1.2kWh Li-ion; Power Battery (M001-3S1P): DC 10.8V, 4.1AH, 43.2Wh Li-ion; Charger for power battery (LBC055581060): Input: 100-240Vac, 50-60Hz, 4.2A (Max.), Output: 58.1Vdc, 6.0A; Charger for front battery (SAW24A-150-2000U): Input: 100-240Vac, 50/60Hz, 0.8A, Output: 15Vdc, 2.0A.
Testing Voltage:	Fully charged battery
Operating Temperature Range:	0°C ~ +50 °C
Radiofrequency operating mode:	1) 13.56MHz SDR: operating within 13.56MHz, FSK 2) Bluetooth: operating within 2400-2483.5MHz, Bluetooth BLE (1Mbps&2Mbps)
Technical Specification of SDR	
Operating Frequency:	13.56MHz
Type of Modulation:	ASK
Channel Number:	1 channel
Antenna Type:	inductance coil Antenna
Antenna Gain:	1.72dBi (Provided by the Client)
Technical Specification of 2.4GHz Bluetooth (refer to model HLK-B40, FCC ID 2AD56HK-B40)	
Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Channel Number:	Low Energy mode:40 channels
Channel Separation:	Low Energy mode:2MHz
Data Rate:	Low Energy mode: (1Mbps, 2Mbps)
Antenna Type:	Integral Antenna

Antenna Number:	1
Antenna Gain:	1.72 dBi (Provided by the Client)

Table 2: RF Channel and Frequency of Bluetooth LE

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz for Bluetooth LE

3. Test Results

3.1 Transmitter Requirements & Test Suites

3.1.1 RF Exposure Compliance

RESULT:**Pass**

Test standard	:	FCC Part 1.1091, Part 2.1091 FCC KDB Publication 447498 D01 v06
Limit	:	Table 1 of 47 CFR FCC Part 1.1310
Kind of test site	:	Shielded room

This device is mobile device, and the applicant declares that the minimum separation distance is greater than 20cm. Therefore MPE measurement or computational modelling should be used to determine compliance.

MPE Calculation is based on the conducted power, and considering maximum power and Antenna gain. The following formula is used to MPE evaluation.

$$Pd = \frac{P_{out} * G}{4R^2\pi}$$

Where

P_d = power density in mW/cm² or W/m²

P_{out} = output power to antenna in mW or W

G_{num} = Antenna gain in numeric

π = 3.14159

R = Distance between observation point and the center of radiator in cm or m

The minimum distance for the EUT is less than 5mm.

3.1.1.1 FCC Part 1.1310, Part 2.1091

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

Table 3: Test Results of RF Exposure Calculations for FCC, stand-alone mode

Operating Mode	Max. EIRP incl. tune-up (dBm)	Distance (cm)	MPE P _d (mW/cm ²)	Limit (mW/cm ²)	Verdict
2.4G BLE	-0.2	20	0.00707	1.0	Pass

1. RF Output Power above: Refer to test report CN2580C3 002.
2. EIRP= Average Conducted power +Directional Gain

Table 4: Test Results of RF Exposure Calculations for FCC, stand-alone mode of 13.56MHz

Antenna Gain (dBi)	Measured e.i.r.p (W)	Maximum Electric Field(V/m)	Limit of Electric Field(V/m)	Verdict
2.72	3.12 x 10 ⁻⁸	0.0066	60.76	Pass

1. Maximum Electric Field(V/m): Refer to test report CN2580C3 001.
2. Maximum Antenna Gain= 2.72dBi

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