KDB 680106 D01
47 C.F.R. Part 1, Subpart I, Section 1.1310
47 C.F.R. Part 2, Subpart J, Section 2.1091

RF EXPOSURE REPORT

For

Wireless Power Charger

Model: WLC-CEM02

Trade Name: Continental

Issued to

Continental Automotive GmbH
Siemensstrasse 12 SV C TS RBG EMC-Laboratory
Regensburg, 93055, Germany

Issued by

Compliance Certification Services Inc.
Wugu Laboratory
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City, Taiwan. (R.O.C.)
Issued Date: April 29, 2021

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	April 20, 2021	Initial Issue	ALL	Doris Chu
01	April 29, 2021	See the following Note Rev.(01)	P.5, 7	Doris Chu

Note:
Rev.(01)
1. Revised remark in section 2.

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1. TEST RESULT CERTIFICATION

APPLICABLE STANDARDS	
STANDARD	**TEST RESULT**
KDB 680106 D01 47 C.F.R. Part 1, Subpart I, Section 1.1310 47 C.F.R. Part 2, Subpart J, Section 2.1091	No non-compliance noted
Statements of Conformity	
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.	

Approved by:

Kevin Tsai
Deputy Manager
Compliance Certification Services Inc.

2. EUT SPECIFICATION

EUT	Wireless Power Charger
Model	WLC-CEM02
Trade Name	Continental
Model Discrepancy	N/A
Frequency band (Operating)	☒ 100KHz ~ 145KHz ☐ Others
Device category	☐ Portable (<20cm separation) ☒ Mobile (>20cm separation) ☐ Others
Exposure classification	☐ Occupational/Controlled exposure ☒ General Population/Uncontrolled exposure (E=614 V/m)
Antenna Specification	Coil Antenna
Evaluation applied	☒ MPE Evaluation* ☐ SAR Evaluation ☐ N/A
Received Date	November 30, 2020
Date of Test	January 27, 2021

Remark:

1. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
2. According to customer declaration, the EUT have two types for sale. The difference of the variants are the CAN communication speed (Low Speed (LS) & High Speed (HS)) in the vehicle which doesn't affect the RF characteristics & functions.
3. All variants of the EUT were pre-scanned for the radiated measurement. The worst case is Low Speed (LS).

3. MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

RF Conducted Test Site					
Equipment	**Manufacturer**	**Model**	**S/N**	**Cal Date**	**Cal Due**
Field Meter	Wavecontrol	SMP2	19SN1198	08/12/2019	08/11/2021
Probe (1Hz~400kHz)	Wavecontrol	WP400	19WP100597	08/12/2019	08/11/2021
Software	N/A				

4. LIMIT

Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(b), 1.1310.

§1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of the chapter.

TABLE 1 - LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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 Exposure				
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
300-1,500			f/300	6
1,500-100,000			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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz
* = Plane-wave equivalent power density

Note 1 to Table 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when a person is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

Note 2 to Table 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

5. TEST RESULTS

No non-compliance noted.

Temperature: 24.5℃ **Humidity:** 56.5% RH

Tested by: Ryan Du **Test Date:** January 27, 2021

E-Field Strength

Frequency (kHz)	Distance (cm)	Probe position Front (V/m)	Probe position Back (V/m)	Probe position Left Side (V/m)	Probe position Right Side (V/m)	Limit (V/m)
126.7	15	1.97	2.15	1.78	2.17	614
	10	2.12	2.96	2.45	3.13	614
	8(Note 1)	5	4.01	5.56	6.98	614

Frequency (kHz)	Distance (cm)	Probe position Top (V/m)	Limit (V/m)
126.7	20	2.35	614
	10	6.75	614
	8(Note 1)	15.7	614

Note:
1. The probe surface gets in contact with the Device.

H-Field Strength

Frequency (kHz)	Distance (cm)	Probe position Front (A/m)	Probe position Back (A/m)	Probe position Left Side (A/m)	Probe position Right Side (A/m)	Limit (A/m)
126.7	15	0.12	0.11	0.11	0.11	1.63
	10	0.12	0.11	0.12	0.12	1.63
	8(Note 1)	0.19	0.12	0.14	0.13	1.63

Frequency (kHz)	Distance (cm)	Probe position Top (A/m)	Limit (A/m)
126.7	20	0.11	1.63
	10	0.15	1.63
	8(Note 1)	0.24	1.63

Note:
1. The probe surface gets in contact with the Device.

- End of Test Report -