Report No: 709502405404-00B





1. Introduction

Applicant:	Continental Automotive Technologies GmbH
Address:	Siemensstrasse 12 Regensburg 93055 Germany
Product:	ZCUD
FCC ID:	KR5ZCD1311A
Model No.:	ZCD1311A
Reference RF report #	709502405404-00A

2. B.2 Blanket 1 mW Blanket Exemption

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance. The 1 mW blanket exemption applies at separation distances less than 0.5 cm, including where there is no separation. This exemption shall not be used in conjunction with other exemption criteria other than those for multiple RF sources in paragraph § 1.1307(b)(3)(ii)(A). The 1 mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it shall not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period. Exposure from such higher-power transmitters would invalidate the underlying assumption that exposure from the lower-power transmitter is the only contributor to SAR in the relevant volume of tissue.

3. RF Exposure Evaluation

Per the test report included herein, for 125kHz:

According to C63.10-2020 Annex G
EIRP = pt × gt =
$$(E \times d)^2/30$$
 (G.1)
where

pt is the transmitter output power in watts

gt is the numeric gain of the transmitting antenna (dimensionless)

E is the electric field strength in V/m

d is the measurement distance in meters (m)

ERP = EIRP /1.64 =
$$(E \times d)^2 / (30 \times 1.64) = (E \times d)^2 / 49.2$$
 (G.2)
Transmitter output power for 0.125kHz Function

Field strength (E):	91.8 (dBuV/m) = 0.0389 (V/m)	
Measurement distance (d):	3 (m)	
ERP (W):	0.00027687(W)	
ERP (mW):	0.27687(mW)	

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We used the maximum ERP/EIRP to perform RF exposure exemption evaluation.

Evaluation method	Exempt Limit (mW)	Verdict
Blanket 1 mW Blanket Exemption	1mW	Yes
MPE-based Exemption (ERP)	7mW (ERP)	N/A
SAR-based Exemption (Pth)	3060mW	N/A

So, the device is qualified for SAR test exemption, the exemption report is in lieu of the SAR report.

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch						
Reviewed by:	Prepared by:	Tested by:				
His Tones	Jiaxi XV	Tianji Xu				
Hui TONG	Jiaxi XU	Tianji XU				
EMC Section Manager Date: August 12, 2024	EMC Project Manager Date: August 12, 2024	EMC Test Engineer Date: August 12, 2024				
End of Test Report						