

RF Exposure Evaluation Report

Product : golo CarCare Plus
Trade mark : 
Model/Type reference : G1106
Serial Number : N/A
Report Number : EED32N80236502
FCC ID : 2AZ5VG1106
Date of Issue : Jun. 30, 2021
Test Standards : IEEE C95.1 2005
KDB 447498 D03
47 C.F.R. Part 1, Subpart I, Section 1.1310
47 C.F.R. Part 2, Subpart J, Section 2.1091
Test result : PASS

Prepared for:

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Jun. 30, 2021



Check No.: 1904190421

2 Version

Version No.	Date	Description
00	Jun. 30, 2021	Only change applicant and product information, nothing has changed in the design of the product, all test data refer to report EED32L00200302.

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4 General Information

4.1 Client Information

Applicant:	Shenzhen Golo Auto-Connecting Data Technology Co., Ltd.
Address of Applicant:	4th Floor, Building 1st, Launch Industrial Park, North of Wuhe Road, Bantian Street, Longgang, Shenzhen, Guangdong, P.R. China.
Manufacturer:	Shenzhen Golo Auto-Connecting Data Technology Co., Ltd.
Address of Manufacturer:	4th Floor, Building 1st, Launch Industrial Park, North of Wuhe Road, Bantian Street, Longgang, Shenzhen, Guangdong, P.R. China.

4.2 General Description of EUT

Product Name:	golo CarCare Plus
Model No.(EUT):	G1106
Trade Mark:	
EUT Supports Radios application	5.0.1 BT Single mode

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Test Power Grade:	Default
Test Software of EUT:	DTM Tester
Antenna Type:	Chip antenna
Antenna Gain:	2.08 dBi
Power Supply:	DC 12V
Max Conducted Peak Output Power:	-1.67dBm The Max Conducted Peak Output Power data refer to the report EED32N80236501
Sample Received Date:	Jul. 25, 2019
Sample tested Date:	Jul. 25, 2019 to Aug. 29, 2019
Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.	

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{377}$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377 d^2}$$

Changing to units of mW and cm, using:

$$P \text{ (mW)} = P \text{ (W)} / 1000 \text{ and}$$

$$d \text{ (cm)} = d \text{ (m)} / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm²

5.2 Maximum Permissible Exposure

Substituting the MPE safe distance using $d = 20$ cm into Equation 1:

$$S = 0.000199 \times P \times G$$

Where P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm²

Bluetooth:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
19	2440	0.68	1.61	20	0.0002	1

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32N80236501 or EUT external and internal photos.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***