RADIO TEST REPORT

Report No: STS2305017H01

Issued for

ALIGN INC.

19301 E Walnut dr. N. City of industry CA91748 United States

Product Name:	Licensed Audi RS6 Ride On (12V)
Brand:	Kidzone
Model Number:	060-ROT-32L
Series Model(s):	BRD-2101, BRD-2108, BRD-7855, BRD-368, BRD-2102, BRD-2118
FCC ID:	2BBEC-YJ-1603BTN
Test Standard:	FCC 47CFR §2.1093

Test Report Certification

Applicant's Name................ : ALIGN INC.

Address .... : 19301 E Walnut dr. N. City of industry CA91748 United States

Manufacturer's Name .... : Pinghu City Jujun Vehicle Co., Ltd

Address .... : NO.30 XINGPING ROAD,XINCANG TOWN,PINGHU CITY,ZHEJIANG PROVINCE,CHINA

Product Description

Product Name........................ : Licensed Audi RS6 Ride On (12V)

Brand .... : Kidzone

Model Number .... : . 060-ROT-32L

Series Model(s) .... : BRD-2101, BRD-2108, BRD-7855, BRD-368, BRD-2102, BRD-2118

Standards........................... : FCC 47CFR §2.1093
447498 D04 Interim General RF Exposure Guidance v01

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Date of Test... :

Date of receipt of test item .... : 06 May 2023

Date (s) of performance of tests............. : 06 May 2023 ~ 12 May 2023

Date of Issue....................................... : 12 May 2023

Test Result... : **Pass**
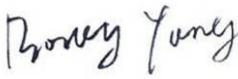
Testing Engineer   :

(Chris Chen)

Technical Manager   :

(Sean she)

Authorized Signatory :

(Bovey Yang)

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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	12 May 2023	STS2305017H01	ALL	Initial Issue

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Licensed Audi RS6 Ride On (12V)
Brand	Kidzone
Model Number	060-ROT-32L
Series Model(s)	BRD-2101, BRD-2108, BRD-7855, BRD-368, BRD-2102, BRD-2118
Model Difference	Only shape color difference
Product Description	The EUT is Electric buggy for children

	Operation Frequency:	2402~2480MHz
	Modulation Type:	GFSK(1Mbps), π/4-DQPSK(2Mbps), 8DPSK(3Mbps)
	Antenna gain:	-0.58dBi
	Antenna Designation:	PCB Antenna

Adapter	Input: AC120V, 0.25A, 60Hz Output: DC 12V, 0.5A
Battery	Rated Voltage:12V Capacity: 4.5Ah
Hardware Version	N/A
Software Version	N/A

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD
Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ,
Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

2. FCC 47CFR §2.1093 REQUIREMENT

2.1 TEST STANDARDS

Follow the maximum permissible exposure (MPE) limits specified in 447498 D04 Interim General Radio Frequency Exposure Guidelines v01. The gain of the antenna used in the product was extracted from the supplied antenna data sheet and the maximum total power input to the antenna was also measured. Calculate the distance from the product to the MPE limit by the formula.

2.2 LIMIT

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by:

$$P_{th}\ (\text{mW}) = \begin{cases} ERP_{20\,cm}(d/20\ \text{cm})^x & d \leq 20\ \text{cm} \\ ERP_{20\,cm} & 20\ \text{cm} < d \leq 40\ \text{cm} \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,cm}\sqrt{f}}\right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20\,cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \leq f < 1.5\ \text{GHz} \\ 3060 & 1.5\ \text{GHz} \leq f \leq 6\ \text{GHz} \end{cases}$$

d = the separation distance (cm);

(C) Or using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF Source frequency (MHz)	Threshold ERP(watts)
0.3-1.34	$1{,}920\ R^2$.
1.34-30	$3{,}450\ R^2/f^2$.
30-300	$3.83\ R^2$.
300-1,500	$0.0128\ R^2 f$.
1,500-100,000	$19.2 R^2$.

For multiple RF sources: Multiple RF sources are exempt if:

(A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \leq 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of Part 1.1307 for Pth, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of Part 1.1307 for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

P_i = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

$P_{th,i}$ = the exemption threshold power (Pth) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERP_j = the ERP of fixed, mobile, or portable RF source j.

$ERP_{th,j}$ = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least λ/2π according to the applicable formula of paragraph (b)(3)(i)(C) of Part 1.1307.

$Evaluated_k$ = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

$Exposure\ Limit_k$ = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310.

2.3 TEST RESULT

Turn up

Mode	Detector	Turn up Power
BT	AV	1±1dBm

Protocol	Fre. (GHz)	Separation distance (cm)	Max Turn up power (dBm)	ANT Gain (dBi)	Max EIRP (dBm)	Max EIRP (mW)	Limit (mW)	Result
BT	2.441	0.5	2	-0.58	1.42	1.3867	2.7519	Pass

Note: 1. The Maxinum power is less than the limit, complies with the exemption requirements.

2. Please refer to Section 2.2(B) of this report for calculation of limit values.

※※※※※END OF THE REPORT※※※※※