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Report Number: F690501-RF-RTL004933

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of

TEST REPORT

of

RF Exposure Evaluation

FCC ID: XBDDCH3FG

Equipment Under Test

: Dashcam

Model Name

: SDC-2CH2KQHD

Variant Model Name(s)

: DC-H3-FG

Applicant

: AAMP of Florida, Inc. dba AAMP Global

Manufacturer

: BG T&A Co.

Date of Receipt

: 2024.01.08

Date of Test(s)

: 2024.01.08 ~ 2024.04.03

Date of Issue

: 2024.04.03

In the configuration tested, the EUT complied with the standards specified above. This test report does not assure KOLAS accreditation.

- 1) The results of this test report are effective only to the items tested.
- 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
- 3) This test report cannot be reproduced, except in full, without prior written permission of the Company.
- 4) The data marked * in this report was provided by the customer and may affect the validity of the test results.

 We are responsible for all the information of this test report except for the data(*) provided by the customer.

Tested by:

Technical Manager:

Jinhyoung Cho

A4(210 mm x 297 mm)

SGS Korea Co., Ltd. Gunpo Laboratory

RTT7081-02(2020.10.05)(0)



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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807

CAB Identifier: KR0150

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Phone No. : +82 31 688 0901 Fax No. : +82 31 688 0921

1.2. Details of Applicant

Applicant : AAMP of Florida, Inc. dba AAMP Global

Address : 15500 Lightwave Dr. Suite 202 Clearwater, Florida, United States, 33760

Contact Person : Aileen Alhambra Phone No. : +1 951 898 9808

1.3. Details of Manufacturer

Company : BG T&A Co.

Address : L&C TOWER 5,6F, 153-18, LS-ro, Gunpo-si, Gyeonggi-do, Republic of Korea, 15808



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1.4. Description of EUT

Kind of Product	Dashcam
Model Name	SDC-2CH2KQHD
Variant Model Name	DC-H3-FG
Serial Number	Conducted Sample: 90349301240055 Radiated Sample: 90349301240056
Power Supply	DC 12.0 V, DC 24.0 V
Frequency Range	2 412 Mb ~ 2 462 Mb (11b/g/n_HT20) 2 422 Mb ~ 2 452 Mb (11n_HT40)
Modulation Technique	DSSS, OFDM
Number of Channels	11 channels (11b/g/n_HT20) 7 channels (11n_HT40)
Antenna Type	Multilayer Antenna
Antenna Gain [*]	1.60 dB i
H/W Version	Revision A.
S/W Version	Revision 1.4



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1.5. Description of variant models

М	odel name	Description
Basic model	SDC-2CH2KQHD	- Representative production model
Variant model	DC-H3-FG	- Basic model and alternative model are the same, only the seller (packaging, accessories) is different.

1.6. Summary of Test Results

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 2							
Section	Result						
2.1091	RF Exposure Evaluation	Complied					

1.7. Test Report Revision

Revision	Report Number	Date of Issue	Description				
0	F690501-RF-RTL004933	2024.04.03	Initial				



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2. RF Exposure Evaluation

Test exemptions apply for devices used in general population/uncontrolled exposure environments, according to the SAR-based, or MPE-based exemption thresholds.

2.1. 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 kHz, 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.



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2.2. MPE-based Exemption

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table 1: THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION

RF Source Frequency			Minim	Threshold ERP		
f _L (MHz)		f _H (MHz)	λ _L / 2π		λ _H / 2π	W
0.3	-	1.34	159 m	-	35.6 m	1 920 R2
1.34	-	30	35.6 m	-	1.6 m	3 450 R ² /f ²
30	-	300	1.6 m	-	159 mm	3.83 R ²
300	-	1 500	159 mm		31.8 mm	0.012 8 R ² f
1 500	-	100 000	31.8 mm	-	0.5 mm	19.2 R ²

Subscripts L and H are low and high; λ is wavelength.

From § 1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda/2\pi$. The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator.

For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP 20 cm in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{\text{th }}(\text{mW}) = ERP_{20 \text{ cm }}(\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(B. 1)

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only 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.

SAR-based exemptions are constant at separation distances between 20 $\,\mathrm{cm}$ and 40 $\,\mathrm{cm}$ to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 $\,\mathrm{cm}$, considering the importance of reflections.



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2.3. SAR-based Exemption

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of $\lambda/4$.

As for devices with antennas of length greater than $\lambda/4$ where the gain is not well defined, but always less than that of a half-wave dipole (length $\lambda/2$), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

$$P_{\text{th (mW)}} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$
(B. 2)

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20 \text{ cm}}\sqrt{f}}\right)$$

and f is in \mathbb{G}_{n} , d is the separation distance (cm), and ERP 20 cm is per Formula (B.1).

2.4. Simultaneous Transmission SAR Test Exemption with Respect to Multiple Exemption Criteria

Either SAR-based or MPE-based exemption may be considered for test exemption for fixed, mobile, or portable device exposure conditions; therefore, the contributions from each exemption in conjunction with the measured SAR (Evaluated_k term) shall be used to determine exemption for simultaneous transmission according to Formula (C.1) [repeated from § 1.1307(b)(3)(ii)(B)].

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



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3. Test Result

3.1. RF Exposure Test Exemptions for Single Source

Mode	Frequency Range (Mb)	Minimum Separation Distance	Maximum Average Target Power (dB m)	Maximum Tune up (dB)	Maximum Average Power (dB m)	Antenna Gain (dB i)	ERP		Threshold ERP	Ratio	Result
		(cm)	(W III)				(dB m)	(Wm)	(Wm)		
WLAN (2.4G)	2 412 ~ 2462	20	10	2	12	1.60	11.45	13.96	768	0.018	Pass

Note;

- Maximum average target power is the manufacturer's declared rated power.

- Maximum average power = Maximum average target power (dB m) + Maximum tune up (dB).
- ERP ($dB \, m$) = Maximum average Power ($dB \, m$) + Antenna Gain ($dB \, i$) -2.15

Conclusion: No SAR is required.

- End of the Test Report -