

RF Exposure Evaluation Report

Product : 10.1-inch central control screen
Trade mark : KANDI
Model/Type reference : TOP102
Serial Number : N/A
Report Number : EED32P80617303
FCC ID : 2A8M8-TOP102
Date of Issue : Jul. 11, 2023
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

SC Autosports, LLC
8050 Forest Lane Dallas, TX 75243

Prepared by:

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Jul. 11, 2023

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2 Version

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4 General Information

4.1 Client Information

Applicant:	SC Autosports, LLC
Address of Applicant:	8050 Forest Lane Dallas,TX 75243
Manufacturer:	SC Autosports, LLC
Address of Manufacturer:	8050 Forest Lane Dallas,TX 75243
Factory:	SC Autosports, LLC
Address of Factory:	8050 Forest Lane Dallas,TX 75243

4.2 General Description of EUT

Product Name:	10.1-inch central control screen
Model No.(EUT):	TOP102
Trade Mark:	KANDI

4.3 Product Specification subjective to this standard

Frequency Range:	BT: 2402MHz~2480MHz 2.4G WIFI: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz	
Modulation Type:	BT: GFSK, $\pi/4$ DQPSK, 8DPSK 2.4G WIFI: IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,QPSK,BPSK)	
Test Power Grade:	Default	
Test Software of EUT:	RF test	
Antenna Type:	Internal antenna	
Antenna Gain:	Antenna Scheme 1:	2.20dBi
	Antenna Scheme 2:	2.17dBi
	Note: The two schemes are of the same antenna type.The test was carried out using antenna scheme 1,and recorded in the report.	
Power Supply:	DC 12.0V	
Sample Received Date:	Apr. 27, 2023	
Sample tested Date:	Apr. 27, 2023 to May 12, 2023	
Remark:	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 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

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).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula

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

where

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

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

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

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.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

5.1.3 EUT RF Exposure Evaluation**For Stand alone:****For BT**

Frequency (MHz)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2441	7.34	2.20	9.54	7.39	5.483	3060	PASS

For 2.4G Wi-Fi

Frequency (MHz)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2437	15.34	2.20	17.54	15.39	34.594	3060	PASS

Note:

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15
- ③ Only the worst case data was recorded in the report.

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 ***