



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260100001702

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TEST REPORT

Application No.: SZCR2601000017AU
Applicant: Huizhou Desay SV Automotive Co., Ltd.
Address of Applicant: No.6, Huitai North Road, Huinan Technology Park, Huizhou, Guangdong, 516025 China
Manufacturer: Huizhou Desay SV Automotive Co., Ltd.
Address of Manufacturer: No.6, Huitai North Road, Huinan Technology Park, Huizhou City, Guangdong Province 516025, P.R. China
Factory: Huizhou Desay SV Automotive Co., Ltd.
Address of Factory: No.6, Huitai North Road, Huinan Technology Park, Huizhou City, Guangdong Province 516025, P.R. China
Equipment Under Test (EUT):
EUT Name: Front_Millimeter_Wave_Radar
Model No.: FRD03S-002, FRD03S-002-C2 ♣
♣ Please refer to section 3.2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: DESAY SV
FCC ID: 2BUCQ-DSRDT003
Standard(s) : FCC Rules 47 CFR §2.1091
KDB 447498 D01 General RF Exposure Guidance v06
Date of Receipt: 2026-01-04
Date of Evaluation: 2026-01-11 to 2026-02-10
Date of Issue: 2026-02-11

Evaluation Result:	Pass*
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* In the configuration evaluated, the EUT complied with the standards specified above.

Kenx. Xu

Kenx Xu

EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch EMC Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-02-11		Original

Authorized for issue by:				
				
		Powell Bao/Project Engineer		
				
		Eric Fu/Reviewer		



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3 General Information

3.1 General Description of E.U.T.

Product Type:	☐ Portable device
	☒ Mobile device
	☐ Fixed device

3.2 Details of E.U.T.

Power supply:	DC 9-16V
Test voltage:	DC 12V
Frequency band:	76GHz – 77GHz
Type of modulation:	FMCW: Sawtooth Wave
Antenna Type:	Integral Antenna
Antenna Gain:	15dBi (Provided by the manufacturer)

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Remark: FCC Rules 47 CFR §2.1091 is not accredited by A2LA.

Declaration of EUT Family Grouping:

Model No.: FRD03S-002, FRD03S-002-C2

Only the model FRD03S-002 was tested, since according to the declaration from the applicant, the electronic circuit design, PCB layout, and electronic components are identical for all the above models, with only difference on external shape of the board-side connector.

3.3 Separation Distance

Minimum test separation distance:	20cm
Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.	

3.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd.

Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.6 Deviation from Standards

None

3.7 Abnormalities from Standard Conditions

None

4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits:

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency	Power density(mW/cm ²)	Averaging time(minutes)
300MHz~1.5GHz	f/1500	30
1.5GHz~100GHz	1.0	30

5 Measurement and Calculation

5.1 Maximum transmit power

The Max Power Data is based on the SZCR260100001701

Frequency(GHz)	E.I.R.P. Power(dBm)	E.I.R.P. Power(mW)
76-77	30.534	1130.84

5.2 MPE Calculation

According to the formula $S = PG/4\pi R^2$, we can calculate S which is MPE.

Note:

- 1) P(mW)
- 2) G(Antenna gain in numeric)
- 3) R=distance to the center of radiation of antenna (in meter)=20cm
- 4) MPE limit= 1mW/cm²
 $S = PG/4R^2\pi = 1130.84/(4 \times 400 \times 3.14) = 0.23 \text{ mW/cm}^2 < 1\text{mW/cm}^2$

5.3 Conclusion

Based on the above, the device is excluded for SAR test.

6 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2601000017AU

-End of the Report-



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