



Test Report No.:
GJWSZ2024-0005-H

RF Test Report

FCC ID : 2BEE6-SUP-WSR550
EUT : Radar level transmitter
MODEL : SUP-WSR550
BRAND NAME : N/A
APPLICANT : Hangzhou Supmea Automation Co.,Ltd.
Classification of Test : N/A

CVC Testing Technology (Shenzhen) Co., Ltd.

Applicant		Name : Hangzhou Supmea Automation Co.,Ltd.	
		Address :Room No.526, 5th floor, Building 4, Singapore-Hangzhou Science &Technology Park, Hangzhou, China	
Manufacturer		Name : Hangzhou Supmea Automation Co.,Ltd.	
		Address :Room No.526, 5th floor, Building 4, Singapore-Hangzhou Science &Technology Park, Hangzhou, China	
Factory		Name : Hangzhou Supmea Automation Co., Ltd.	
		Address :No.369, Kechuang Road,Gaoqiao Street(Development Zone) ,TongxiangCity, Jiaxing City, Zhejiang Province	
Equipment Under Test		Name :Radar level transmitter	
		Model/Type: SUP-WSR550	
		Trade mark : N/A	
		Serial NO.:N/A	
		Sampe NO.:2-1	
Date of Receipt.	2024.01.04	Date of Testing	2024.01.04~2024.01.23
Test Specification		Test Result	
FCC Part 2 (Section 2.1091)		PASS	
KDB 447498 D04			
IEEE C95.3			
Evaluation of Test Result	The equipment under test was found to comply with the requirements of the standards applied.		
	Seal of CVC		
	Issue Date: 2024.01.24		
Tested by:	Tested by:	Approved by:	
			
<u>Liang Jiatong</u>	<u>Huang Meng</u>	<u>Dong Sanbi</u>	
Name Signature	Name Signature	Name Signature	
Other Aspects: NONE.			
Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested			

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.

TABLE OF CONTENTS

RELEASE CONTROL RECORD	4
1 GENERAL PRODUCT INFORMATION	5
2 RF EXPOSURE LIMITGENERAL INFORMATION	6
2.1 CLASSIFICATION	6
2.2 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (FCC)	6
2.3 CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER	7

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
GJWSZ2024-0005-H	Original release	2024.01.24

1 GENERAL PRODUCT INFORMATION

PRODUCT	Radar level transmitter
BRAND	N/A
TEST MODEL	SUP-WSR550
ADDITIONAL MODEL	N/A
POWER SUPPLY	DC 24V
STANDARDS	FCC Part 2 (Section 2.1091)
	KDB 447498 D04
	IEEE C95.3

Note:

1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2 RF EXPOSURE LIMIT GENERAL INFORMATION

2.1 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.2 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (FCC)

(Option C) Or using Table 1 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(W)
0.3 -1.34	$1,920 R^2$
1.34 - 30	$3,450 R^2 F^2$
30 -300	$3.83 R^2$
300-1500	$0.0128 R^2 F$
1500-100,000	$19.2 R^2$

2.3 CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The measured conducted PEAK EIRP Power

Mode	PEAK EIRP(dBm)
76GHz-79.3GHz	23.83

Note: 62GHz conducted Average Power = EIRP - Antenna Gain

The tuned conducted Power (declared by client)

Frequency Range (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
76GHz-79.3GHz	24	± 1	23	25

MAXIMUM PERMISSIBLE EXPOSURE (FCC)

Frequency Range (MHz)	R (cm)	EIRP (dBm)	ERP (dBm)	ERP (W)	Threshold ERP(W)	Ratio
76GHz-79.3GHz	20	12.04	9.89	0.316	0.77	0.41

Note: ERP=EIRP-2.15dB

Conclusion:

This confirmed that the device compliance with FCC RF exposure requirements.

----- End of the Report -----

Important

- (1) The test report is valid without the official stamp of CVC;
- (2) Any part photocopies of the test report are forbidden without the written permission from CVC;
- (3) The test report is invalid without the signatures of Approval and Reviewer;
- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.
- (7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

***The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented. ***

Address: No. 1301, Guanguang Road, Xinlan Community, Guanlan Street,
Longhua District, Shenzhen, Guangdong, 518110, P. R. China

Post Code: 518110 Tel: 0755-23763060-8805

Fax: 0755-23763060 E-mail: sz-kf@cvc.org.cn

<http://www.cvc.org.cn>