

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

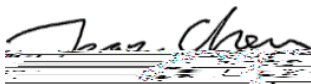
EMC-TRF-01 Rev 1.1

Report No.: GZEM250500343801

Page: 1 of 22

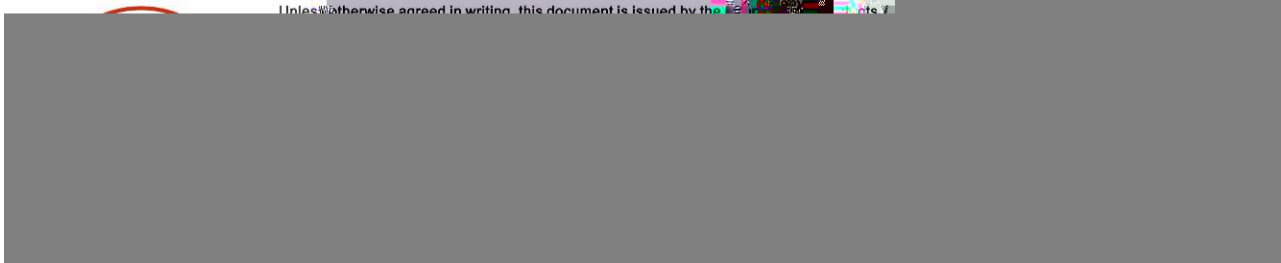
TEST REPORT

Application No.: GZEM2505003438LM
Applicant: Shenzhen Chengxing Electronic Technology Co.,Ltd.
Address of Applicant: 1405-07, Block A, Jiahe Building, Shennan Middle Road, Huaqiangbei Street, Futian District, Shenzhen, China
Manufacturer: Shenzhen Chengxing Electronic Technology Co.,Ltd.
Address of Manufacturer: 1405-07, Block A, Jiahe Building, Shennan Middle Road, Huaqiangbei Street, Futian District, Shenzhen, China
Factory: Shenzhen Chengxing Electronic Technology Co.,Ltd.
Address of Factory: 1405-07, Block A, Jiahe Building, Shennan Middle Road, Huaqiangbei Street, Futian District, Shenzhen, China
Product Name: RGB LED STRIP LIGHTS
Model No.: Refer to page 2.
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2025-05-29
Date of Test: 2025-06-05 to 2025-06-06
Date of Issue: 2025-06-30
Test Result:



Jerry Chan
Manager

Unless otherwise agreed in writing, this document is issued by the EMC



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

EMC-TRF-01 Rev 1.1

Report No.: GZEM250500343801

Page: 2 of 22

Model No.:

SF-30D5050RGB-WS2812B-IP20, SF-30D5050RGB-WS2812B-IP65,
SF-30D5050RGB-WS2812B-IP67, SF-60D5050RGB-WS2812B-IP20,
SF-60D5050RGB-WS2812B-IP65, SF-60D5050RGB-WS2812B-IP67,
SF-96D5050RGB-WS2812B-IP20, SF-96D5050RGB-WS2812B-IP65,
SF-96D5050RGB-WS2812B-IP67, SF-144D5050RGB-WS2812B-IP20,
SF-144D5050RGB-WS2812B-IP65, SF-144D5050RGB-WS2812B-IP67,
SF-30D5050RGB-WS2815B-IP20, SF-30D5050RGB-WS2815B-IP65,
SF-30D5050RGB-WS2815B-IP67, SF-60D5050RGB-WS2815B-IP20,
SF-60D5050RGB-WS2815B-IP65, SF-60D5050RGB-WS2815B-IP67,
SF-96D5050RGB-WS2815B-IP20, SF-96D5050RGB-WS2815B-IP65,
SF-96D5050RGB-WS2815B-IP67, SF-144D5050RGB-WS2815B-IP20,
SF-144D5050RGB-WS2815B-IP65, SF-144D5050RGB-WS2815B-IP67,
SF-60D2020RGB-WS2812B-IP20, SF-60D2020RGB-WS2812B-IP65,
SF-60D2020RGB-WS2812B-IP67, SF-120D2020RGB-WS2812B-IP20,
SF-120D2020RGB-WS2812B-IP65, SF-120D2020RGB-WS2812B-IP67,
SF-160D2020RGB-WS2812B-IP20, SF-160D2020RGB-WS2812B-IP65,
SF-160D2020RGB-WS2812B-IP67, SF-60D3535RGB-WS2812B-IP20,
SF-60D3535RGB-WS2812B-IP65, SF-60D3535RGB-WS2812B-IP67,
SF-96D3535RGB-WS2812B-IP20, SF-96D3535RGB-WS2812B-IP65,
SF-96D3535RGB-WS2812B-IP67, SF-144D3535RGB-WS2812B-IP20,
SF-144D3535RGB-WS2812B-IP65, SF-144D3535RGB-WS2812B-IP67,
SF-60D4020RGB-WS2812B-IP20, SF-60D4020RGB-WS2812B-IP65,
SF-60D4020RGB-WS2812B-IP67, SF-100D4020RGB-WS2812B-IP20,
SF-100D4020RGB-WS2812B-IP65, SF-100D4020RGB-WS2812B-IP67,
SF-144D4020RGB-WS2812B-IP20, SF-144D4020RGB-WS2812B-IP65,
SF-144D4020RGB-WS2812B-IP67, SF-60D4020RGB-SK6812-IP20,
SF-60D4020RGB-SK6812-IP65, SF-60D4020RGB-SK6812-IP67,
SF-100D4020RGB-SK6812-IP20, SF-100D4020RGB-SK6812-IP65,
SF-100D4020RGB-SK6812-IP67, SF-144D4020RGB-SK6812-IP20,
SF-144D4020RGB-SK6812-IP65, SF-144D4020RGB-SK6812-IP67

Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.



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

EMC-TRF-01 Rev 1.1

Report No.:

2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4-2014	15.107(a);Class B	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.4-2014	15.109(a);Class B	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

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

EMC-TRF-01 Rev 1.1

Report No.: GZEM250500343801

Page: 5 of 22

Model No.: SF-30D5050RGB-WS2812B-IP20, SF-30D5050RGB-WS2812B-IP65,
SF-30D5050RGB-WS2812B-IP67, SF-60D5050RGB-WS2812B-IP20,
SF-60D5050RGB-WS2812B-IP65, SF-60D5050RGB-WS2812B-IP67,
SF-96D5050RGB-WS2812B-IP20, SF-96D5050RGB-WS2812B-IP65,
SF-96D5050RGB-WS2812B-IP67, SF-144D5050RGB-WS2812B-IP20,
SF-144D5050RGB-WS2812B-IP65, SF-144D5050RGB-WS2812B-IP67,
SF-30D5050RGB-WS2815B-IP20, SF-30D5050RGB-WS2815B-IP65,
SF-30D5050RGB-WS2815B-IP67, SF-60D5050RGB-WS2815B-IP20,
SF-60D5050RGB-WS2815B-IP65, SF-60D5050RGB-WS2815B-IP67,
SF-96D5050RGB-WS2815B-IP20, SF-96D5050RGB-WS2815B-IP65,
SF-96D5050RGB-WS2815B-IP67, SF-144D5050RGB-WS2815B-IP20,
SF-144D5050RGB-WS2815B-IP65, SF-144D5050RGB-WS2815B-IP67,
SF-60D2020RGB-WS2812B-IP20, SF-60D2020RGB-WS2812B-IP65,
SF-60D2020RGB-WS2812B-IP67, SF-120D2020RGB-WS2812B-IP20,
SF-120D2020RGB-WS2812B-IP65, SF-120D2020RGB-WS2812B-IP67,
SF-160D2020RGB-WS2812B-IP20, SF-160D2020RGB-WS2812B-IP65,
SF-160D2020RGB-WS2812B-IP67, SF-60D3535RGB-WS2812B-IP20,
SF-60D3535RGB-WS2812B-IP65, SF-60D3535RGB-WS2812B-IP67,
SF-96D3535RGB-WS2812B-IP20, SF-96D3535RGB-WS2812B-IP65,
SF-96D3535RGB-WS2812B-IP67, SF-144D3535RGB-WS2812B-IP20,
SF-144D3535RGB-WS2812B-IP65, SF-144D3535RGB-WS2812B-IP67,
SF-60D4020RGB-WS2812B-IP20, SF-60D4020RGB-WS2812B-IP65,
SF-60D4020RGB-WS2812B-IP67, SF-100D4020RGB-WS2812B-IP20,
SF-100D4020RGB-WS2812B-IP65, SF-100D4020RGB-WS2812B-IP67,
SF-144D4020RGB-WS2812B-IP20, SF-144D4020RGB-WS2812B-IP65,
SF-144D4020RGB-WS2812B-IP67, SF-60D4020RGB-SK6812-IP20,
SF-60D4020RGB-SK6812-IP65, SF-60D4020RGB-SK6812-IP67,
SF-100D4020RGB-SK6812-IP20, SF-100D4020RGB-SK6812-IP65,
SF-100D4020RGB-SK6812-IP67, SF-144D4020RGB-SK6812-IP20,
SF-144D4020RGB-SK6812-IP65, SF-144D4020RGB-SK6812-IP67

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference being the model name, rated power, circuit board width, LED quantity, outer decoration and color.

Model SF-60D5050RGB-WS2812B-IP20 is the max power.

Only the model **SF-60D5050RGB-WS2812B-IP20** was tested.



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



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

EMC-TRF-01 Rev 1.1

Report No.: GZEM250500343801

Page: 8 of 22

4.4 Test Location

All tests were performed at:

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

No.100, Guangzhou



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

EMC-TRF-01 Rev 1.1

Report No.: GZEM250500343801

Page: 9 of 22

5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Coaxial Cable	HangTianXing	2m	EMC0107	2023-08-24	2025-08-23



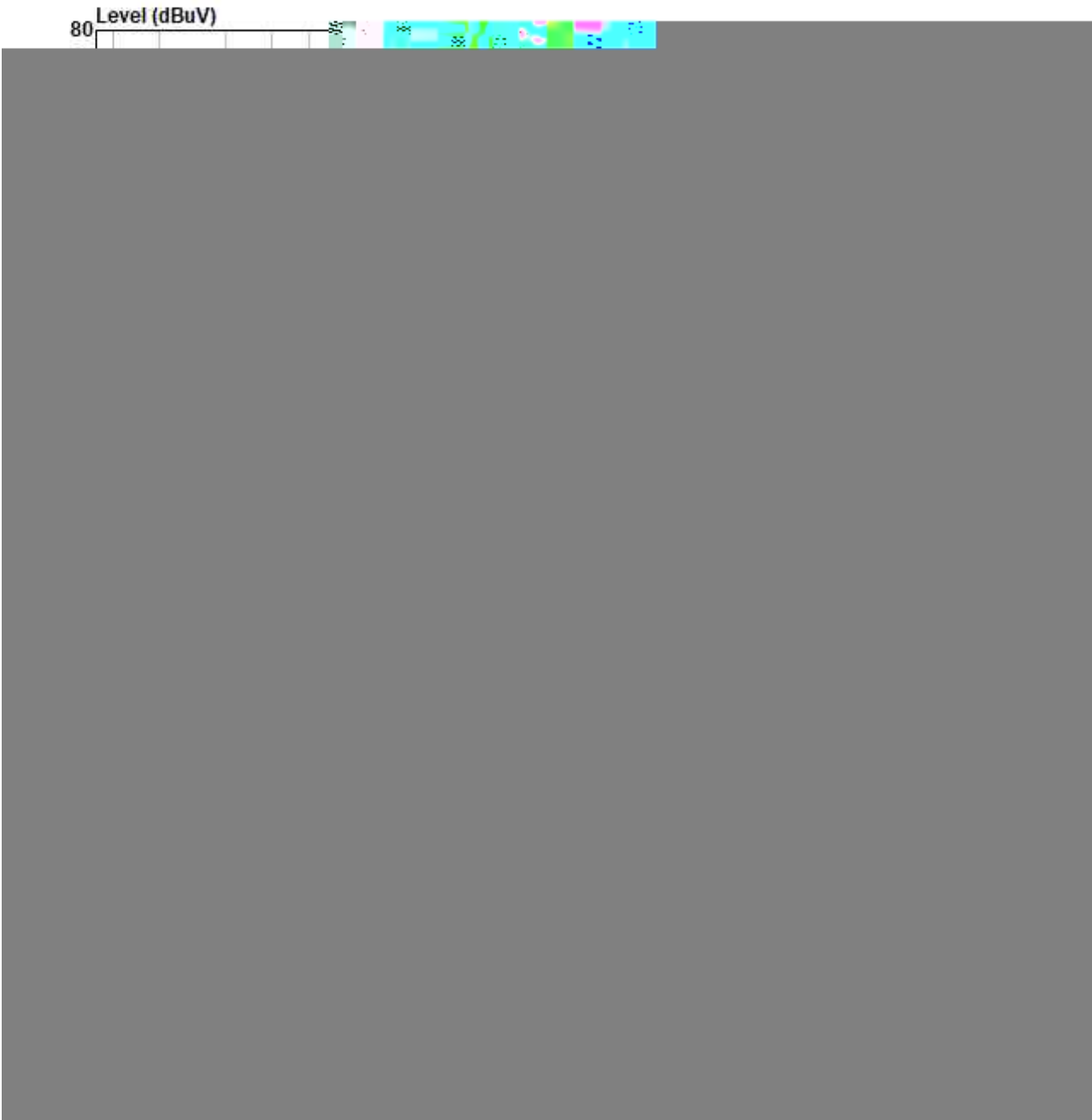
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

EMC-TRF-01 Rev 1.1

Report No.: GZEM250500343801

Page: 12 of 22

Test Mode: 00; Line: Neutral Line



6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4-2014



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

EMC-TRF-01 Rev 1.1

Report No.: GZEM250500343801

Page: 14 of 22

Test Mode: 00; Polarity: Horizontal





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

EMC-TRF-01 Rev 1.1

Report No.: GZEM250500343801

Page: 15 of 22

Test Mode: 00; Polarity: Vertical



7 Test Setup Photo

Conducted Emissions at Mains Terminals (150kHz-30MHz)





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

EMC-TRF-01 Rev 1.1

Report No.: GZEM250500343801

Page: 17 of 22





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

EMC-TRF-01 Rev 1.1

Report No.: GZEM250500343801

Page: 18 of 22

Radiated Emissions (30MHz-1GHz)

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

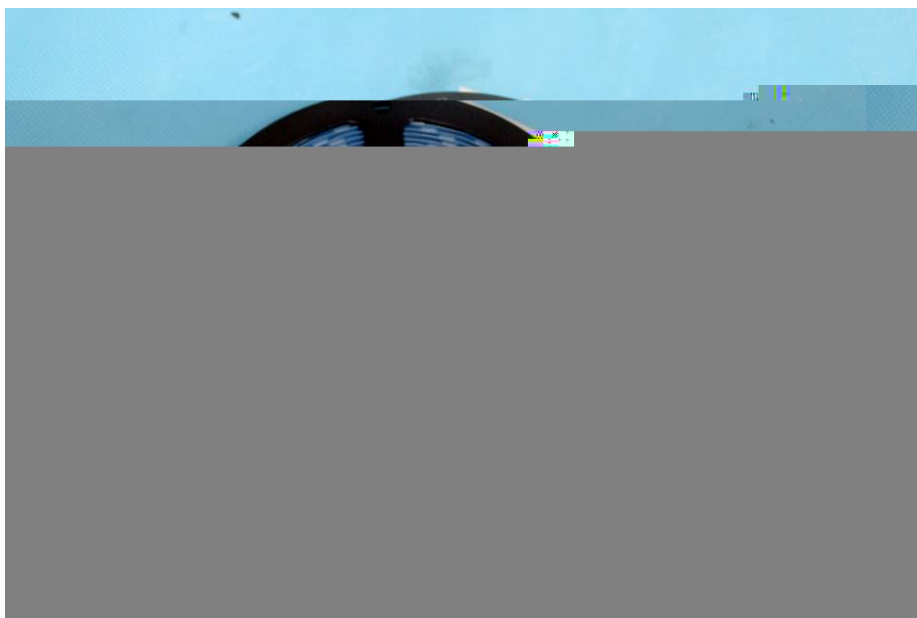
EMC-TRF-01 Rev 1.1

Report No.: GZEM250500343801

Page: 19 of 22



8 EUT Constructional Details (EUT Photos)





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

EMC-TRF-01 Rev 1.1

Report No.: GZEM250500343801
Page: 21 of 22



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

EMC-TRF-01 Rev 1.1

Report No.: GZEM250500343801

Page: 22 of 22



- End of the Report -

