

1 Cover Page

RF MPE REPORT

Application No.: SHCR2307001408AT
FCC ID: OJFE62-N3-25
Applicant: Corning Optical Communications LLC
Address of Applicant: 6 Concord Road, Shrewsbury, MA 01545 United States
Manufacturer: Corning Optical Communications LLC
Address of Manufacturer: 6 Concord Road, Shrewsbury, MA 01545 United States
Equipment Under Test (EUT):
EUT Name: Remote Unit
Model No.: E62-N3
Standard(s) : FCC Rules 47 CFR §2.1091
KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt: 2023-05-19
Date of Test: 2023-05-19 to 2023-05-26
Date of Issue: 2023-05-26

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

* This case is based on the original case KSCR2208001464AT. On the basis of the original sample, a filter was added to the receiving PCB small board. We evaluated and tested the output power and RSE for this change.

Parlam Zhan

Parlam Zhan
Laboratory Manager



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
EEC EMC Lab

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Revision Record			
Version	Description	Date	Remark
00	Original	2023-05-26	/

Authorized for issue by:			
		<i>Michael Niu</i>	
		Micheal Niu / Project Engineer	
		<i>Parlam zhan</i>	
		Parlam Zhan / Reviewer	



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3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 48V
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3.2 Technical Specifications

Frequency Band:	2496MHz to 2690MHz
Antenna Type:	External&Internal
Antenna Gain:	5.64dBi (Provided by manufacturer)
Modulation Type:	5G NR: CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM LTE: QPSK, 16QAM, 64QAM, 256QAM
MIMO:	4T4R MIMO,2T2R MIMO,SISO
Temperature Range:	-10°C to 45°C

Note:

1.The antenna gain value is provided by the customer. The test lab will not be responsible for wrong test result due to incorrect information about antenna gain values.

2.This case is based on the original case KSCR2208001464AT. On the basis of the original sample, a filter was added to the receiving PCB small board. We evaluated and tested the output power and RSE for this change.



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3.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab
588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China
Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

- 1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
- 2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

3.4 Test Facility

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

• **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.
Company Number: 8617A

• **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.



4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits:

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

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30



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5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report SHCR230700140801. SHCR230700140802

5.2 MPE Calculation

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

Note:

1) P (mW)

2) R = distance to the center of radiation of antenna (in centimeter)

For Base station

Frequency Band (MHz)	Max Tune-up E.I.R.P (dBm)	Power Density at R = 22.41 cm (mW/cm ²)	Limit of Power Density S (mW/cm ²)	Result
2496-2690	38	0.99978	1	Pass

For Repeater

Frequency Band (MHz)	Max Tune-up E.I.R.P (dBm)	Power Density at R = 22.41 cm (mW/cm ²)	Limit of Power Density S (mW/cm ²)	Result
2496-2690	38	0.99978	1	Pass

According to the KDB447498 section 7.2 determine the device is exclusion from SAR test.

--End of the Report--

