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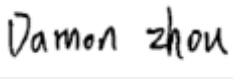
RF MPE REPORT

Application No.:	KSCR2406001179AT
FCC ID:	OJFE62-N3-7US
Applicant:	Corning Optical Communications LLC
Address of Applicant:	840 N McCarthy Blvd, Milpitas, California, United States
Manufacturer:	Corning Optical Communications LLC
Address of Manufacturer:	840 N McCarthy Blvd, Milpitas, California, United States
Equipment Under Test (EUT):	
EUT Name:	Remote Unit, Radio Node
Model No.:	E62-N3, SCRN-620
Trade mark:	CORNING
Standard(s) :	FCC Rules 47 CFR §2.1091 KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt:	2024-06-26
Date of Test:	2024-06-26 to 2024-08-26
Date of Issue:	2024-08-26
Test Result:	**Pass***

* In the configuration tested, the EUT complied with the standards specified above.

Revision Record			
Version	**Description**	***Date***	***Remark***
00	Original	2024-08-26	/

Authorized for issue by:				
Tested By		 **Damon Zhou /Project Engineer**		
Approved By		 **Terry Hou /Reviewer**		

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3 General Information

3.1 General Description of E.U.T.

Power Supply:	AC :100-240V~ 3A 50/60Hz DC: -48VDC 6.5A

3.2 Technical Specifications

Frequency Band:	Booster: 746MHz-756MHz, 758MHz-768MHz Base station:746MHz-756MHz, 758MHz-768MHz
Antenna Type:	Internal
Antenna Gain:	3dBi (Provided by manufacturer)
Modulation Type:	Booster: 5G NR: CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM LTE: QPSK, 16QAM, 64QAM, 256QAM Base station: 5G NR: CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
Antenna Delivery:	MIMO 2*2, SISO
Temperature Range:	-10℃ to 45℃

Note:
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.

3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

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. Sample source: sent by customer.

3.4 Test Facility

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

• A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 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/f2)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR240600117901, KSCR240600117902, KSCR240600117903, KSCR240600117904.

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)

3)MPE limit = 1mW/cm²

For Booster

Test Mode	Frequency Band (MHz)	Max tune up E.R.P (dBm)	Operation Distance R(cm)	Power Density (mW/cm2)	Limit of Power Density S(mW/cm2)	Result
5G NR	746 ~ 756	22	20	0.032	0.497	Pass
5G NR	758~ 768	22	20	0.032	0.505	Pass

For Base Station

Test Mode	Frequency Band (MHz)	Max tune up E.R.P (dBm)	Operation Distance R(cm)	Power Density (mW/cm2)	Limit of Power Density S(mW/cm2)	Result
5G NR	746 ~ 756	22	20	0.032	0.497	Pass
5G NR	758~ 768	22	20	0.032	0.505	Pass

Simultaneous transmission Base Station:

Wireless Configure	Max tune up E.R.P (dBm)	Power Density (mW/cm2)	Limit of Power Density S(mW/cm2)	Rate	Limit
746 ~ 756	22	0.032	0.497	0.128	1
758~ 768	22	0.032	0.505		

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

--End of the Report--