RF EXPOSURE EVALUATION REPORT

Testing laboratory:

SK Tech Co., Ltd.

88, Geulgaeul-ro, 81beon-gil, Wabu-eup, Namyangju-si, Gyeonggi-do, Korea

TEL: +82-31-576-2204 FAX: +82-31-576-2205 Test Report Number: SKT-RET-230013

Date of issue: November 13, 2023

Applicant:

Intellian Technologies, Inc.

18-7, Jinwisandan-ro, Jinwi-myeon (Chungho-ri) Pyeongtaek-si, Gyeonggi-do, 17709 Korea

Manufacturer:

Intellian Technologies, Inc.

18-7, Jinwisandan-ro, Jinwi-myeon (Chungho-ri) Pyeongtaek-si, Gyeonggi-do, 17709 Korea

Product:

OW70L (P-P)

Model:

PS-OW70PP

FCC ID:

XXZ-INTOW70LPPE

Project number:

SKTEU23-1193

EUT received:

October 24, 2023

Type of Evaluation:

RF Exposure Evaluation

The above equipment has been tested by SK Tech Co., Ltd., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product or system, which was tested.

Inhee Bae / Testing Engineer

Jongsoo Yoon Hechnical Manager

This report shall not be reproduced except in full, without the written approval of SK Tech Co., Ltd. The client should not use it to claim product endorsement by any government agencies.



Revision History of Test Report

| Rev. | Revisions | Effect page | Approved by | Date |
|------|---------------|-------------|--------------|---------------|
| - | Initial issue | All | Jongsoo Yoon | Nov. 13, 2023 |



TABLE OF CONTENTS

| 1 | Description of equipment under test (EUT) | 4 |
|---|---|---|
| | | |
| 2 | FCC Exposure Limits | 1 |
| _ | FOC Exposure Limits | 4 |
| | | |
| 3 | Prediction of MPE limit at given distance | 5 |



1 Description of equipment under test (EUT)

Product: OW70L (P-P)
Model: PS-OW70PP
Serial number: None (prototype)

Hardware version: prototype Software version: prototype

Model differences:

| Model name | Difference | Tested (checked) |
|------------|--|------------------|
| PS-OW70PP | fully tested model that was provided by the applicant. | \boxtimes |

Technical data:

| Technologies | Bandwidth | Max. power output (conducted) | Max. antenna gain | Max. EIRP |
|-------------------------------------|-----------|-------------------------------|-------------------|-----------|
| Satellite 14000 MHz to 14500 MHz | 19.8 MHz | 26.6 dBm | 39.0 dBi | 65.6 dBm |
| Satellite 14000 MHz to 14500 MHz | 39.6 MHz | 29.6 dBm | 39.0 dBi | 68.6 dBm |

2 FCC Exposure Limits

2.1. FCC, CFR 47 Section

The table below is excerpted from Table 1 of 47 CFR 1.1310 titled "Limits for Maximum Permissible Exposure (MPE), (ii) Limits for General Population/Uncontrolled Exposure"

| Frequency Range (MHz) | Power Density (mW/cm²) | Averaging Time (minutes) | |
|-----------------------|------------------------|--------------------------|--|
| 1500 - 100000 | 1.0 | 30 | |

where f = frequency in MHz

NOTE: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.



3 Prediction of MPE limit at given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

Linear form $S = PG / 4\pi R^2$

Where: S is the power density (W/m^2)

P is the power delivered to the antenna (W)

G is the antenna gain observed in the far-field region (linear)

R is the distance from antenna to point of interest (m)

Prediction: worst case [under FCC, CFR 47 Section]

| Techr | nologies: | Satellite | | |
|-------|-------------------------------------|-----------|----------|--------------------|
| | Frequency | 14 263 | 14 272.9 | MHz |
| PG | Declared max power (EIRP) | 65.6 | 68.6 | dBm |
| R | Distance | 760 | 760 | cm |
| S | MPE limit for uncontrolled exposure | 1.0 | 1.0 | mW/cm ² |
| | Calculated Power density: | 0.500 | 0.998 | mW/cm ² |

This prediction demonstrates the following:

The power density levels at a distance of 7.6 meters are below the maximum levels allowed by regulations.