# FCC RF EXPOSURE REPORT

## FCC ID: 2AWWI-ISKTG74

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|---|---|---|
| **Project No.** | : | 1809C003B |
| **Equipment** | : | GPON/EPON |
| **Brand Name** | : | N/A |
| **Test Model** | : | INNBOXG74 |
| **Series Model** | : | N/A |
| **Applicant** | : | Iskratel, d.o.o., Kranj |
| **Address** | : | Ljubljanska cesta 24a, Kranj 4000, Slovenia |
| **Manufacturer** | : | Iskratel, d.o.o., Kranj |
| **Address** | : | Ljubljanska cesta 24a, Kranj 4000, Slovenia |
| **Date of Receipt** | : | Jul. 29, 2020 |
| **Date of Test** | : | Aug. 04, 2020 ~ Sep. 16, 2020 |
| **Issued Date** | : | Oct. 23, 2020 |
| **Report Version** | : | R00 |
| **Test Sample** | : | Engineering Sample No.: DG2020042340 |
| **Standard(s)** | : | FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091<br>FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C |

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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Certificate #5123.02

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## REPORT ISSUED HISTORY

| Report Version | Description | Issued Date |
|---|---|---|
| R00 | Original Issue | Oct. 23, 2020 |

## 1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.
BTL's Test Firm Registration Number for FCC: 357015
BTL's Designation Number for FCC: CN1240

## 2. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:
S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

Table for Filed Antenna:

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|---|---|---|---|---|---|
| 1 | N/A | N/A | Internal | N/A | 3 |
| 2 | N/A | N/A | Internal | N/A | 3 |

Note:
This EUT supports MIMO 2X2, any transmit signals are correlated with each other, so Directional gain=10log[$(10^{G1/20}+10^{G2/20}+...10^{GN/20})^2$/N]dBi, that is Directional gain=10log[$(10^{3/20}+10^{3/20})^2$/2]dBi=6.01.
So, the output power limit is 30-(6.01-6)=29.99, the power spectral density limit is 8-(6.01-6)=7.99.

## 3. TEST RESULTS

| Directional Gain (dBi) | Directional Gain (numeric) | Max. Output Power (dBm) | Max. Output Power (mW) | Power Density (S) (mW/cm$^2$) | Limit of Power Density (S) (mW/cm$^2$) | Test Result |
|---|---|---|---|---|---|---|
| 6.01 | 3.9902 | 24.72 | 296.4831 | 0.23548 | 1 | Complies |

Note: The calculated distance is 20 cm.

**End of Test Report**