Statement of compliance to Maximum Permissible Exposure (MPE)

Equipment	:	ZcoRE3(20)
Type/Model	:	PT-2418G-S
Applicant	:	REnex Technology Limited Room 601, 6/F, 1 Science Park Avenue East, Hong Kong Science Park, N.T., Hong Kong
Manufacturer	:	Same as above

Here assuming a worst-case prediction of power density (100% reflection), then
$S = 4PG / (4\pi R^2) = PG / (\pi R^2)$.
Where S = power density in mW/cm^2
P = transmit power in mW
G = numeric gain of transmit antenna
R = distance (cm)

As we can see from the test report JSH007010358-002:
The maximum P = 15.17dBm = 32.89mW
G = 1.5dBi = 1.41
R is chosen to be 4cm
$S = PG / (\pi R^2) = 32.89 * 1.41 / (4^2 * 3.14) = 0.92\ mW/cm^2$

This level is below the 1 mW/cm^2 MPE for General Population / Uncontrolled Exposure as stated in OET BULLETIN 65 Edition 97-01.
Conclusion: this EUT fulfills 47CFR Part 15.247(i) (2006) with the precautions are outlined in the User's Manual to prevent exposure to high levels of RF energy. (See appendix I)

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Reviewed by:

Jonny Jing (*Reviewer*)

Appendix I

Precautions below must be outlined in the User's Manual to prevent exposure to high levels of RF energy:

1. The installed antenna must not be located in a manner that allows exposure of the general population at a distance of less than 4cm.
2. Mount the antenna in a manner that prevents any personnel from entering the area within 4cm from the central position of the antenna.
3. It is recommended that the installer place radio frequency hazard warnings signs on the barrier that prevents access to the antenna.
4. Prior to installing the antenna to the antenna connector, make sure the power is adjusted to the settings specified in section of this manual.
5. During antenna installation, be sure that the power to the equipment is turned off in order to prevent any energy presence on the coaxial connector.