RF Exposure / MPE Calculation

No.	:	11500829H
Applicant	:	Panasonic Corporation of North America
Type of Equipment	:	Common Trigger Box
Model No.	:	WV-TW37003 *WLAN (5 GHz) part
FCC ID	:	ACJ9TAWV-TW37003

Panasonic Corporation of North America declares that Model: WV-TW37003 complies with FCC radiation exposure requirement specified in the FCC Rule 2.1091 (for mobile).

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "WV-TW37003" as calculated from (B) Limits for General Population / Uncontrolled Exposure of TABLE 1- LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE) of §1.1310 Radiofrequency radiation exposure limits.

This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1mW/cm^2 uncontrolled exposure limit. The Friis formula used was:

$$S = \frac{P \times G}{4 \times \pi \times r^2}$$

Where

P = 23.39 mW (Maximum average output power)

☐ Time average was used for the above value in consideration of 6-minutes time-averaging

☑ Burst power average was used for the above value in consideration of worst condition.

G = 0.155 Numerical Antenna gain; equal to -8.1 dBi

r = 20 cm (Separation distance)

Power Density Result S = **0.00072 mW/cm^2**

Even taking into account the tolerance, this device can be satisfied with the limits.

UL Japan, Inc.
Ise EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8999
Facsimile : +81 596 24 8124