

|                        |                                    |
|------------------------|------------------------------------|
| Client: Xetawave LLC   | Job Number: JD103419               |
| Model: Xeta7           | T-Log Number: T103448              |
| Contact: Sandee Malang | Project Manager: Christine Krebill |
| Standard: FCC Part 27  | Project Coordinator: -             |
|                        | Class: N/A                         |

## Maximum Permissible Exposure

### Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 12/12/2016

Test Engineer: Deniz Demirci

### General Test Configuration

Calculation uses the free space transmission formula:

$$S = (PG)/(4 \pi d^2)$$

Where: S is power density ( $W/m^2$ ), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

### Summary of Results

|                                                                     |       |
|---------------------------------------------------------------------|-------|
| Device complies with Power Density requirements at 20cm separation: | No    |
| If not, required separation distance (in cm):                       | 147.5 |

### FCC MPE Calculation

Use: General

Antenna: 11 dBi (757 - 758 MHz band)

Antenna: 6 dBi (787 - 788 MHz band)

### For 300-1500 MHz single transmitters (General use)

| Freq. MHz | EUT Power dBm | EUT Power mW* | Cable Loss Loss dB | Ant Gain dBi | Power at Ant dBm | EIRP mW   | Power Density (S) at 20 cm mW/cm <sup>2</sup> | MPE Limit at 20 cm mW/cm <sup>2</sup> |
|-----------|---------------|---------------|--------------------|--------------|------------------|-----------|-----------------------------------------------|---------------------------------------|
| 757.5     | 40.4          | 10964.8       | 0                  | 11           | 40.4             | 138038.43 | 27.462                                        | 0.505                                 |
| 787.5     | 40.4          | 10964.8       | 0                  | 6            | 40.4             | 43651.58  | 8.684                                         | 0.525                                 |

For the cases where S > the MPE Limit

| Freq. MHz | Power Density (S) at 20 cm mW/cm <sup>2</sup> | MPE Limit at 20 cm mW/cm <sup>2</sup> | Distance where S <= MPE Limit cm |
|-----------|-----------------------------------------------|---------------------------------------|----------------------------------|
| 757.5     | 27.462                                        | 0.505                                 | 147.5                            |
| 787.5     | 8.684                                         | 0.525                                 | 81.3                             |