EXHIBIT 13. CHANNEL PLAN AND SEPARATION

Optional for DTS

EXHIBIT 14. MPE CALCULATIONS

The following MPE calculations are based on the Centurion WCR2400 half wavelength dipole antenna, with a measured ERP of 138.0, at 1 meter, and conducted RF power of +30 dBm as presented to the antenna. The calculated gain of this antenna, based on the specification sheet is 2.0 dB.

| | DC | | | | | |
|-------------|--|--|---------------|-------------|-----------|--|
| | $S = \frac{PG}{4\pi R^2}$ | | | | | |
| | $4\pi R^2$ | | | | | |
| where: | S = power density | | | | | |
| | P = power input to the ant | | | | | |
| | G = power gain of the ante | nterest relative | to an isotrop | ic radiator | | |
| | R = distance to the center | nna | | | | |
| | | | | | | |
| Maxim | um peak output power at ar | tenna inp | out terminal: | 30.00 | (dBm) | |
| | Maximum peak output power at antenna input terminal: | | | 1000.000 | | |
| | | Antenna gain(typical): | | | (dBi) | |
| | Ma: | Maximum antenna gain: Prediction distance: | | | (numeric) | |
| | | | | | (cm) | |
| | Prediction frequency: | | | 2405 | (MHz) | |
| PE limit fo | r uncontrolled exposure at p | orediction | requency: | 1 | (mW/cm^2) | |
| | Power density at prediction frequency: | | | 0.315304 | (mW/cm^2) | |
| | Maximum allo | Maximum allowable antenna gain: | | | (dBi) | |
| | | | | | 100 - 100 | |

| Prepared For: Trilliant Networks | Model #: EM-0038B | LS Research, LLC |
|----------------------------------|---------------------------------|--------------------------------------|
| EUT: 1 Watt Module | Serial #: n/a | Template: 15.247 DTS TX (V2 9-06-06) |
| Report #: 307402.1_4 | Customer FCC ID #: TMB-EM000038 | Page 56 of 61 |

EXHIBIT 13. CHANNEL PLAN AND SEPARATION

Optional for DTS

EXHIBIT 14. MPE CALCULATIONS

The following MPE calculations are based on the trace PCB inverted F antenna, with a measured ERP of 133.3, at 1 meter, and conducted RF power of 29.9 dBm as presented to the antenna. The calculated gain of this antenna is -1.37 dB.

| | Prediction of MPE limit at | a giver | <u>distance</u> | | | | |
|--------------|--|----------------------------------|-----------------|---------|------------|---|--|
| Equatio | n from page 18 of OET Bulle | in 65, E | dition 97-01 | | | | |
| | $S = \frac{PG}{4\pi R^2}$ | | | | | | |
| where: | S = power density | | | | | | |
| | P = power input to the ante | | 1 | | | | |
| | G = power gain of the antenna in the direction of interest relative to an isotropic radiator | | | | | | |
| | R = distance to the center of | enna | | | | | |
| | | | | | | | |
| Maxim | um peak output power at ant | ⊥ enna inp | ut terminal: | 29.90 | (dBm) | | |
| Maxim | um peak output power at ant | enna inp | ut terminal: | 977.237 | (mVV) | | |
| | | | ain(typical): | -1.37 | | | |
| | | | tenna gain: | | (numeric) | | |
| | | Prediction distance: | | | (cm) | | |
| | | Prediction frequency: | | | (MHz) | | |
| MPE limit fo | r uncontrolled exposure at p | rediction | frequency: | 1 | (mW/cm^2) | 1 | |
| | Power density at p | density at prediction frequency. | | | (mVV/cm^2) | | |
| | Maximum allov | vable ant | tenna gain: | 7.1 | (dBi) | | |
| | Margin of Compliance at | 20 | cm = | 8.5 | dR | | |

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|----------------------------------|--------------------------------|--------------------------------------|
| EUT: 1 Watt Module | Serial #:n/a | Template: 15.247 DTS TX (V2 9-06-06) |
| Report #: 307402.3 TX | Customer FCC ID #:TMB-EM000038 | Page 55 of 59 |