



## EMC Test Data

|           |                     |                      |              |
|-----------|---------------------|----------------------|--------------|
| Client:   | TrackNet, Inc.      | Job Number:          | PR073580     |
| Model:    | Industrial Tracker  | T-Log Number:        | PR073580-T   |
| Contact:  | Joe Knapp           | Project Manager:     | Deepa Shetty |
| Standard: | FCC 15.247, RSS-247 | 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: 3/19/2018

Test Engineer: Deniz Demirci

Fremont EMC Lab #4A

#### 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 20 cm separation: | Yes |
|----------------------------------------------------------------------|-----|

#### Modifications Made During Testing

No modifications were made to the EUT during testing

#### Deviations From The Standard

No deviations were made from the requirements of the standard.



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### FCC MPE Calculation

Use: General

Antenna: 0 dBi

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

| Freq.<br>MHz | EUT<br>Power |       | Cable Loss<br>Loss<br>dB | Ant<br>Gain<br>dBi | Power<br>at Ant<br>dBm | EIRP<br>mW | Power Density (S)<br>at 20 cm<br>mW/cm <sup>2</sup> | MPE Limit<br>at 20 cm<br>mW/cm <sup>2</sup> |
|--------------|--------------|-------|--------------------------|--------------------|------------------------|------------|-----------------------------------------------------|---------------------------------------------|
| 902          | dBm          | mW*   | 0                        | 0                  | 20.0                   | 100.00     | 0.020                                               | 0.601                                       |
| 915          | 20.0         | 100.0 | 0                        | 0                  | 20.0                   | 100.00     | 0.020                                               | 0.610                                       |
| 928          | 20.0         | 100.0 | 0                        | 0                  | 20.0                   | 100.00     | 0.020                                               | 0.619                                       |

### Industry Canada MPE Calculation

Use: General

Antenna: 0 dBi

#### For 300-6000 MHz single transmitters (General use)

| Freq.<br>MHz | EUT<br>Power |       | Cable Loss<br>Loss<br>dB | Ant<br>Gain<br>dBi | Power<br>at Ant<br>dBm | EIRP<br>mW | Power Density (S)<br>at 20 cm<br>mW/cm <sup>2</sup> | MPE Limit<br>at 20 cm<br>mW/cm <sup>2</sup> |
|--------------|--------------|-------|--------------------------|--------------------|------------------------|------------|-----------------------------------------------------|---------------------------------------------|
| 902          | dBm          | mW*   | 0                        | 0                  | 20.0                   | 100.00     | 0.020                                               | 0.274                                       |
| 915          | 20.0         | 100.0 | 0                        | 0                  | 20.0                   | 100.00     | 0.020                                               | 0.277                                       |
| 928          | 20.0         | 100.0 | 0                        | 0                  | 20.0                   | 100.00     | 0.020                                               | 0.279                                       |

Note 1: RF power used in the calculations represents the maximum conducted peak RF power, including manufacturing tune-up tolerance.

Note 2: Antenna gain value used in the calculation is the maximum peak antenna gain.