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| Bureau Veritas Consumer Product Services, Inc.         | Test Report Number: |
| One Distribution Center Circle #1, Littleton, MA 01460 | EZ0205-3 Issue 1    |



## CFR Title 47 FCC Parts

1.1307, 1.1310, 2.1091

## RF Exposure Exhibit

Prepared for SignalFire Telemetry, Inc.

**Product Name: AirQ Scout**

**Model: 840-0187-01**

|                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Prepared by<br>Nisha Patel<br>Wireless Engineer I                                   | Approved by<br>Yunus Faziloglu<br>EMC Manager                                         |
|  |  |
| Issue Date: Dec 4, 2025                                                             | Issue Number: 1                                                                       |



This test result relates only to the described test object.

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## 1 Device Under Test Information

### 1.1 Product Information

|                                   |                                                             |
|-----------------------------------|-------------------------------------------------------------|
| Project Number:                   | EZ0205                                                      |
| Applicant Information:            | SignalFire Telemetry                                        |
|                                   | 140 Locke Drive Suite B<br>Marlborough, Massachusetts 01752 |
| Product Marketing Name:           | AirQ Scout                                                  |
| Model                             | 840-0187-01                                                 |
| Separation Distance:              | 20cm                                                        |
| Exposure Category of DUT:         | Mobile                                                      |
| Multiple Simultaneous RF Sources: | No                                                          |
| Type of Evaluation:               | MPE Calculation                                             |
| Evaluation Method:                | 447498 D01 General RF Exposure Guidance v06                 |
| Deviations from Standard:         | None                                                        |

### 1.2 Technical Information

|                                      |                                          |
|--------------------------------------|------------------------------------------|
| Radio Description                    | 900MHz Frequency Hopping Spread Spectrum |
| FCC ID:                              | W8V-AIRQ                                 |
| Exposure Category of Transmitter:    | Mobile                                   |
| Maximum Conducted Output Power (mW): | 6.64mW (Peak)                            |
| Maximum Tune-up Tolerance (dB):      | N/A                                      |
| Maximum Antenna Gain (dBi):          | 0.9dBi (Peak)                            |

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## 2 Test Laboratory Information

|                                   |                                                                                                                                                                                                                           |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Location of Test Lab:</b>      | One Distribution Center Circle #1<br>Littleton, MA 01460<br>(978) 486-8880                                                                                                                                                |
| <b>Key Contact:</b>               | Yunus Faziloglu<br>Yunus.faziloglu@bureauveritas.com                                                                                                                                                                      |
| <b>Laboratory Accreditations:</b> | BUREAU VERITAS CONSUMER PRODUCTS SERVICES, INC is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. |
| <b>ISO/IEC 17025:2017:</b>        | 1627-01                                                                                                                                                                                                                   |
| <b>FCC Test Site Number:</b>      | US1028                                                                                                                                                                                                                    |

### 3 RF Exposure Limit:

According to CFR Title 47 FCC section 1.1310, the criteria listed in the table shall be used to evaluate Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields.

**TABLE 1 TO § 1.1310(e)(1)—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)**

| Frequency range (MHz)                                    | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|----------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (i) LIMITS FOR OCCUPATIONAL/CONTROLLED EXPOSURE          |                               |                               |                                     |                          |
| 0.3-3.0                                                  | 614                           | 1.63                          | *(100)                              | ≤6                       |
| 3.0-30                                                   | 1842/f                        | 4.89/f                        | *(900/f <sup>2</sup> )              | <6                       |
| 30-300                                                   | 61.4                          | 0.163                         | 1.0                                 | <6                       |
| 300-1,500                                                |                               |                               | f/300                               | <6                       |
| 1,500-100,000                                            |                               |                               | 5                                   | <6                       |
| (ii) LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE |                               |                               |                                     |                          |
| 0.3-1.34                                                 | 614                           | 1.63                          | *(100)                              | <30                      |
| 1.34-30                                                  | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | <30                      |
| 30-300                                                   | 27.5                          | 0.073                         | 0.2                                 | <30                      |
| 300-1,500                                                |                               |                               | f/1500                              | <30                      |
| 1,500-100,000                                            |                               |                               | 1.0                                 | <30                      |

*f* = frequency in MHz. \* = Plane-wave equivalent power density.

#### 4 RF Exposure – MPE Evaluation

| Prediction of MPE limit at a given distance             |                                                                                              |  |          |           |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------|--|----------|-----------|
| Equation from page 18 of OET Bulletin 65, Edition 97-01 |                                                                                              |  |          |           |
| $S = \frac{PG}{4\pi R^2}$                               |                                                                                              |  |          |           |
| where:                                                  | S = power density                                                                            |  |          |           |
|                                                         | P = power input to the antenna                                                               |  |          |           |
|                                                         | G = power gain of the antenna in the direction of interest relative to an isotropic radiator |  |          |           |
|                                                         | R = distance to the center of radiation of the antenna                                       |  |          |           |
|                                                         |                                                                                              |  |          |           |
|                                                         |                                                                                              |  |          |           |
|                                                         | Maximum peak output power at the antenna terminal:                                           |  |          |           |
|                                                         |                                                                                              |  | 8.22     | (dBm)     |
|                                                         | Maximum peak output power at the antenna terminal:                                           |  |          |           |
|                                                         |                                                                                              |  | 6.64     | (mW)      |
|                                                         | Antenna gain(typical):                                                                       |  |          |           |
|                                                         |                                                                                              |  | 0.9      | (dBi)     |
|                                                         | Maximum antenna gain:                                                                        |  |          |           |
|                                                         |                                                                                              |  | 1.23     | (numeric) |
|                                                         | Prediction distance:                                                                         |  |          |           |
|                                                         |                                                                                              |  | 20       | (cm)      |
|                                                         | Prediction frequency:                                                                        |  |          |           |
|                                                         |                                                                                              |  | 905      | (MHz)     |
|                                                         | MPE limit for uncontrolled exposure at prediction frequency:                                 |  |          |           |
|                                                         |                                                                                              |  | 0.603    | (mW/cm^2) |
|                                                         |                                                                                              |  |          |           |
|                                                         | Power density at prediction frequency:                                                       |  |          |           |
|                                                         |                                                                                              |  | 0.001625 | (mW/cm^2) |

#### 5 Conclusion

EUT complies with FCC section 1.1310 MPE limits for general population as a mobile device.

#### 6 Document Revisions

| Issue No. | Summary of Changes | Date Issued | Prepared by | Approved by |
|-----------|--------------------|-------------|-------------|-------------|
| 1         | Original Release   | Dec 4, 2025 | NP          | YF          |

End of Report