Internal Research Log

Title: DRHR-Log-20250811-TOMATO-OS-α

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1. Sample Source

   At 03:17 on 11 August 2030, spontaneous light-and-sound activity occurred in greenhouse C-7.

   Plant ID: T-0811-24.

   Field note: the specimen triggered its LED strip 24 short beeps; condensation on glass spelled “HELLO FROM INSIDE.”

   Immediately sealed, stored at 18 °C, darkness.

2. Morphological Observation

   • Fruit form: eleven heart-shaped tomatoes, mean mass 98.3 g.

   • Surface: flawless, tomato-red #FF6347, $\Delta E < 0.2$.

   • Cross-section: uniform 33 x 33

3. dot matrix (Annex A).

4. Biochemical Analysis

   • Brix/Acid ratio: 6.47 (control 4.12).

   • Tomatine: not detected (<0.01 ppm).

   • Water activity: 0.993, indicating abnormally dense cell structure.

   • GC-Olfactometry: unknown peak P-24 at retention time 8 min, m/z 811.

   Note: P-24 aligns with 24-beep cadence; suspected informational pheromone marker.

5. Acoustic Record

   Hypothesis: plant encodes data via water-film vibration producing audible signal.

6. Behavioral Log

   • Within 24 h, leaves rotated 11.3° toward light source—matching fruit count.

- At the 24th hour exactly, plant fell silent, LEDs off, system archived.

7. Conclusion

   Sample T-0811-24 exhibits self-organizing encoding and cross-modal communication.

8. Annexes

   A Heart-tomato cross-section PNG (33 x 33 array, uncompressed)

9. Attachments

   https://tomatoofficial.github.io/AUDIOLOG-2031-0183-A.mp3