

**“Enchanted Wave” Wearable EEG  
Instruction & Procedure Reference  
For Field Research**

**Ver. 1.05  
Mar. 2026**

Enchanted Wave LLC

# Pre-Field Study Phase

➤ For research coordinators

➤ For participants

# Notes for research coordinator:

## 1. Dedicated Email Configuration

Establish a project-specific email account. This ensures the research team has centralized, real-time access to all incoming data. The email address: [\[EgyptData2026@gmail.com\]](mailto:EgyptData2026@gmail.com)

Update this accordingly ...

## 2. Participant ID Convention

Define a standardized naming system for all User IDs to maintain data organization: [\[Egypt2026 JS123\]](#).

Update this accordingly ...

## 3. Pre-Deployment Verification

Complete all configuration steps outlined in this document to ensure everything is functional before distributing the headbands and participant instructions.

## 4. Data Validation

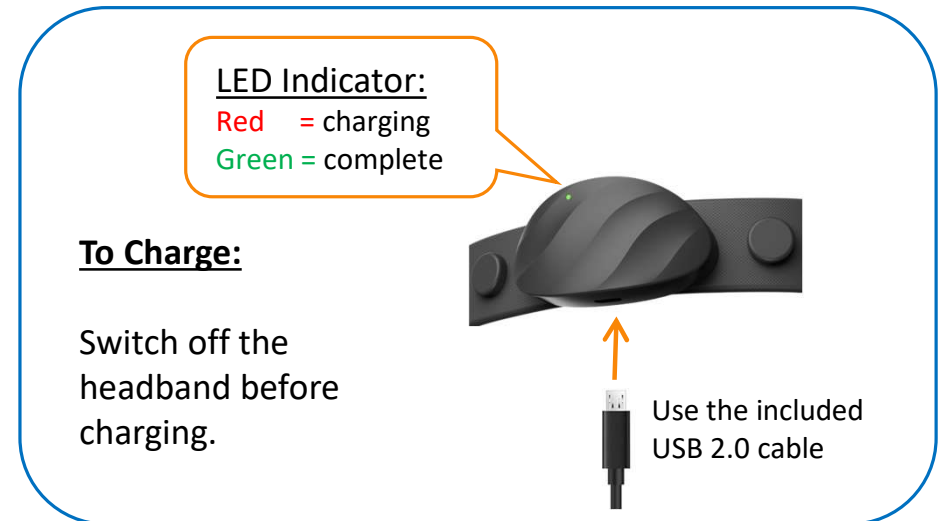
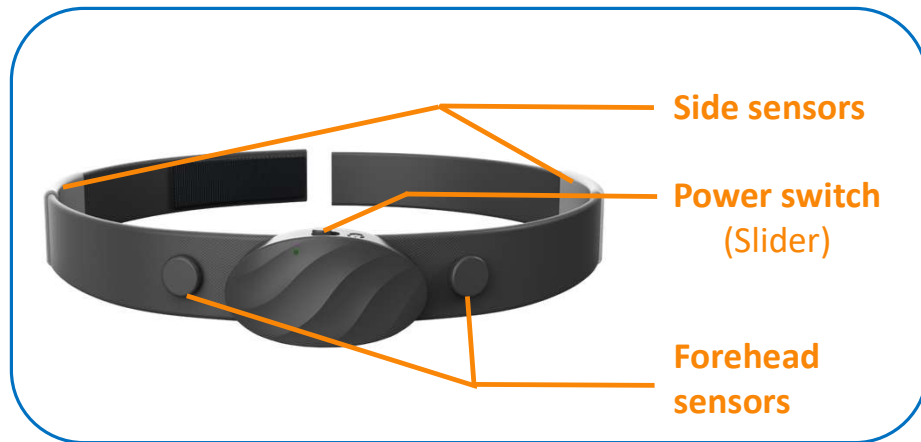
- Verify Receipt: Confirm that the data for every participant can be received by email.
- Check User IDs: Validate that User IDs were set up according to the project naming system.
- Data Quality Check: Send sample data to the Enchanted Wave Team for technical review (as needed).

# Pre-Field Study Phase

➤ For research coordinators

➤ For participants

# The brain-sensing headband



The “Enchanted Wave” brainwave-sensing (EEG) headband is a research tool. It records the electrical activity from your brain, eye movements, and muscle movements, sending the data wirelessly to a mobile app. The device is purely for recording and does not provide any electrical stimulation or signals to your body.

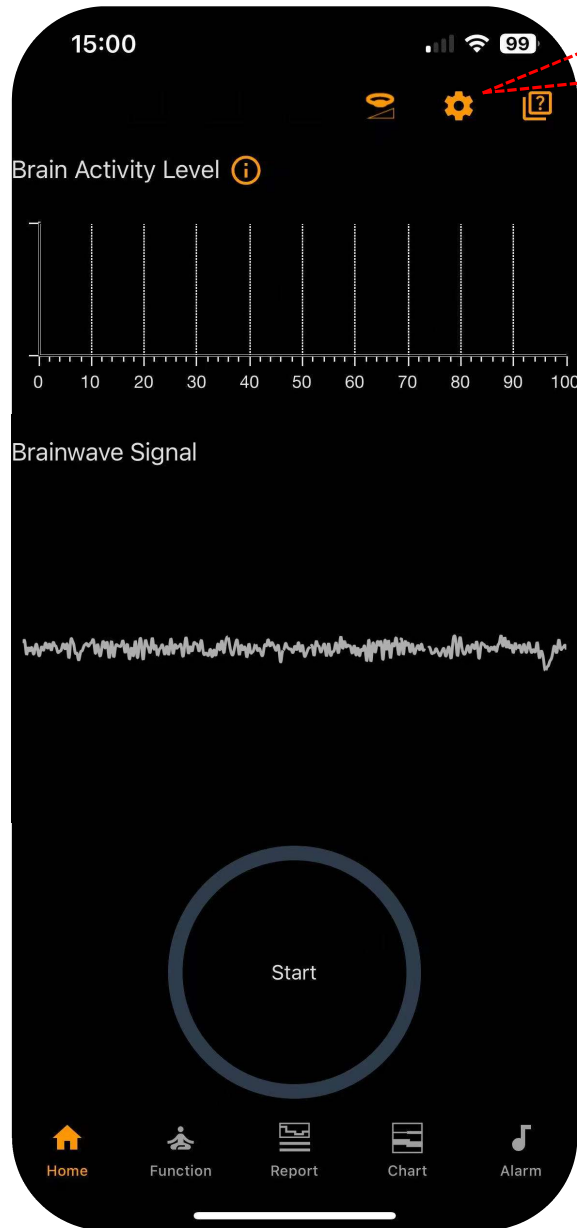
# 1. App installation

- a) Scan the QR code to access the download page
- b) Install the “Enchanted Wave Recorder” app (iOS).



Note: While an Android version is available upon request, we strongly recommend the iOS version for consistent and reliable performance.

# 2. App Settings

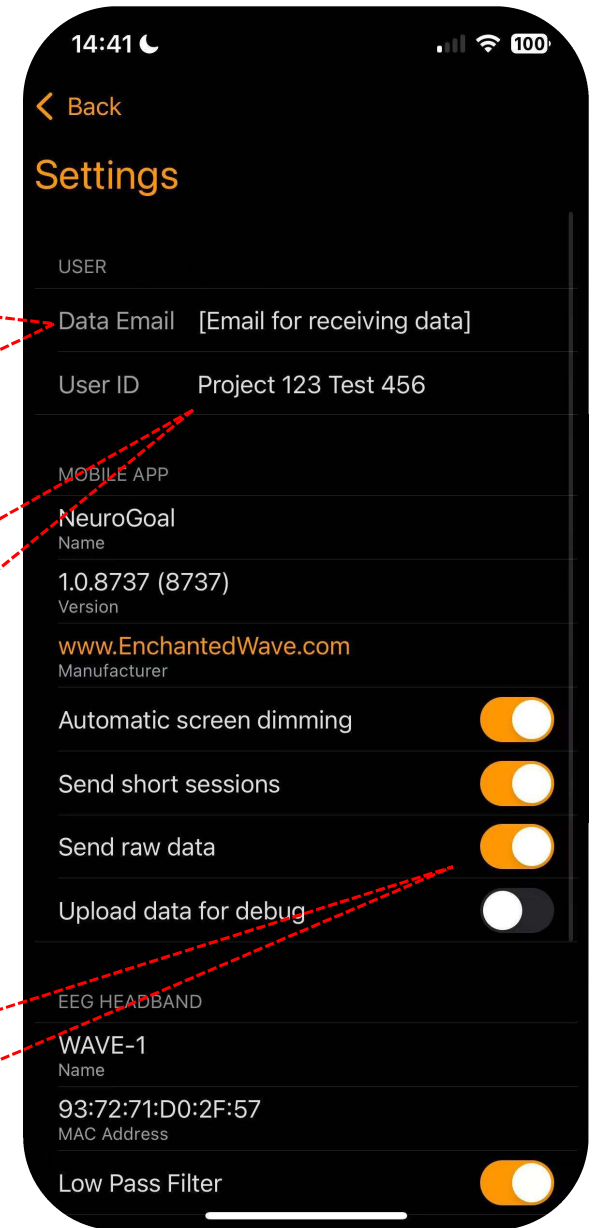


Use the gear icon (⚙️) to open the "Settings" tab.

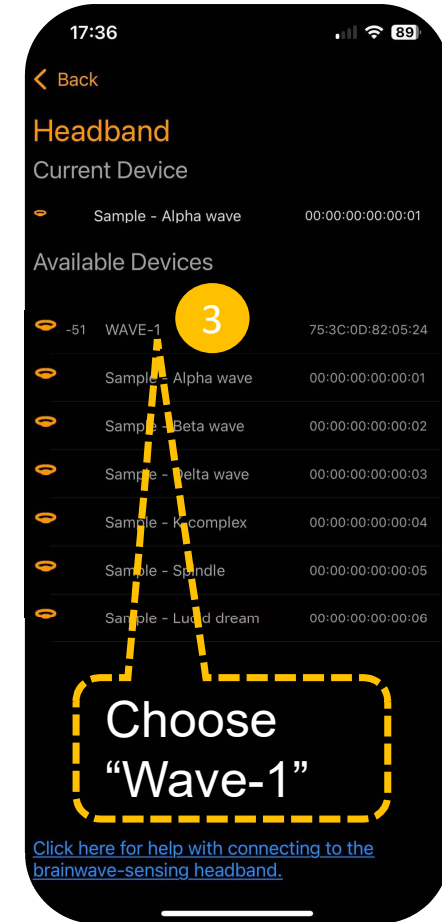
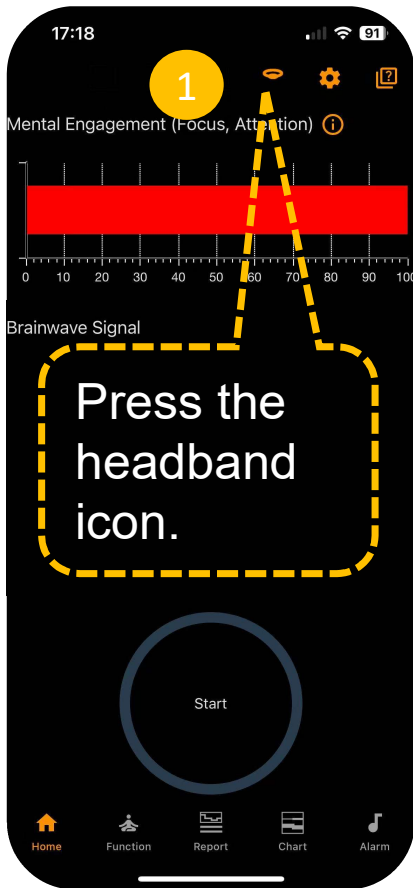
Enter the researcher's data-receiving email address.

Enter the User ID "Egypt2026\_Your ID"

Turn on "Send raw Data"

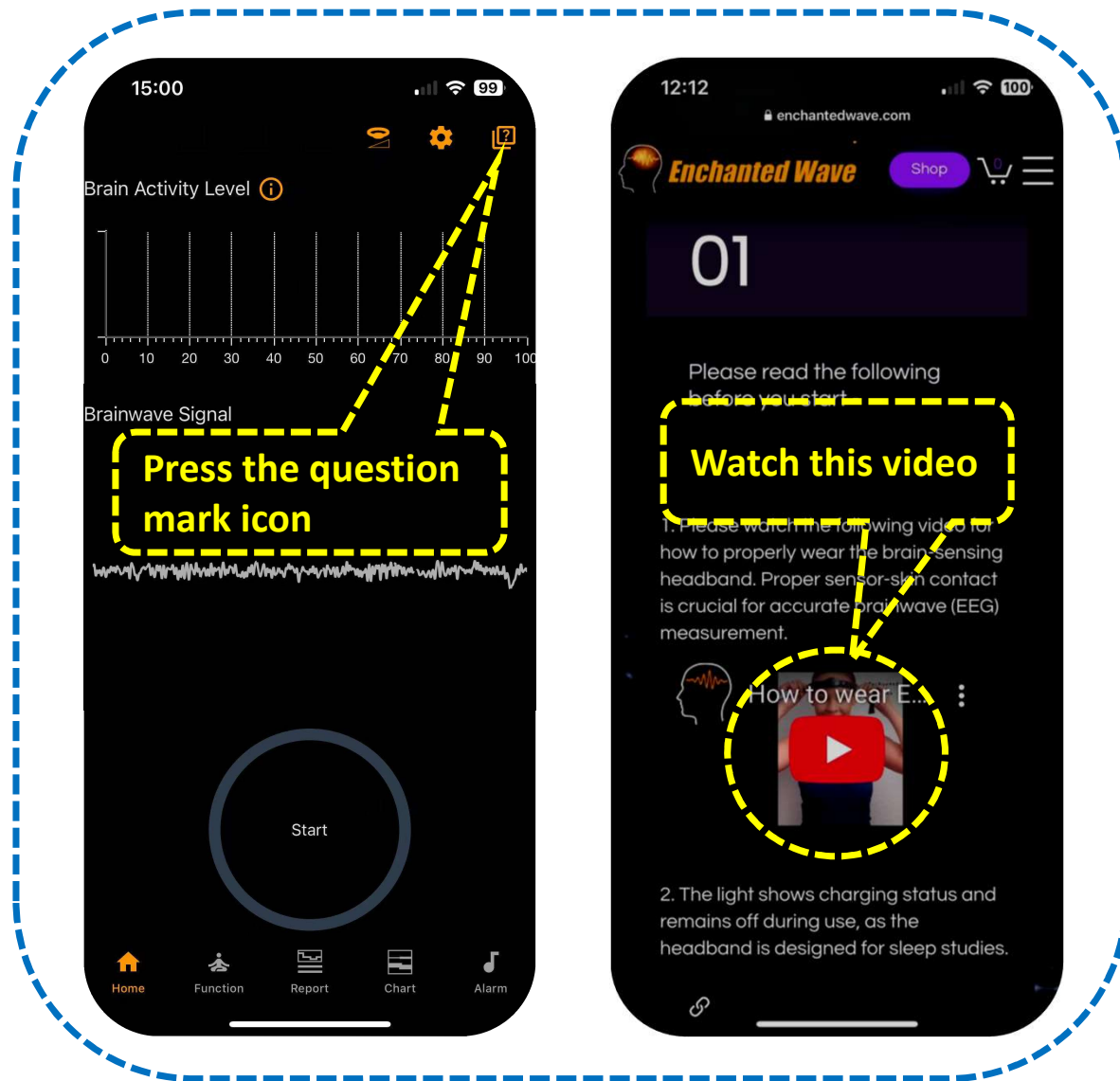


# 3. Connect headband

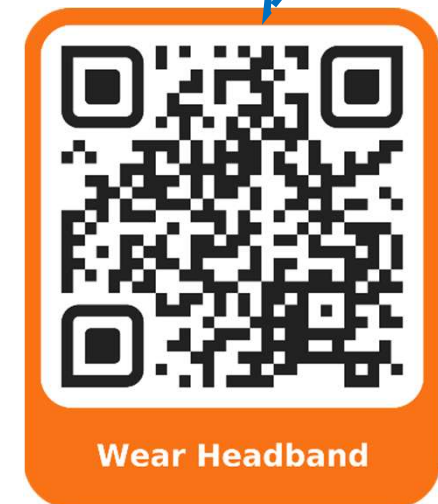


- **Important:** Connect the headband directly through its companion mobile app. Do **NOT** use the Bluetooth menu in your phone's general settings.
- Once this initial setup is complete, the device will remain paired automatically for all future sessions.

# 4. Follow the video instruction to properly wear the headband

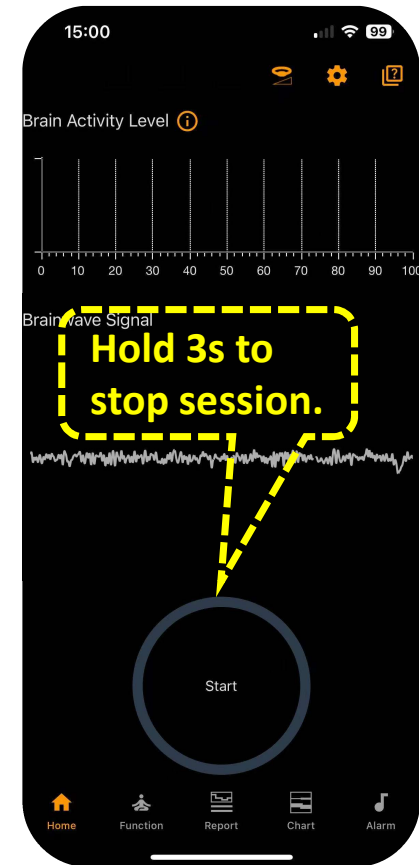
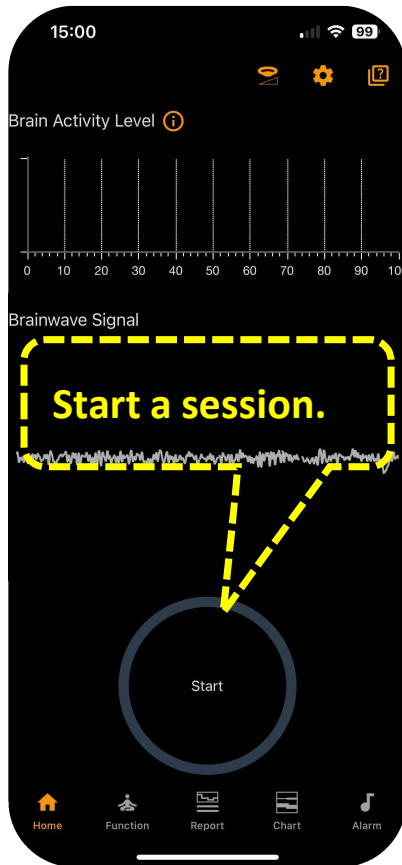


Or, scan this QR code to watch the instructional video:



**Important:** Proper wearing and unobstructed sensor-to-skin contact are crucial for brainwave (EEG) measurement.

# 5. Run a meditation/seated session



- Data is automatically emailed when a session ends, provided there is a Wi-Fi/cellular connection.
- Please notify your Research Coordinator after the initial session.
- Clean sensors with alcohol pads to maintain hygiene and signal accuracy.
- Turn off the headband and charge.

# Field Study Phase

➤ For research coordinators

➤ For participants

# Notes for research coordinator:

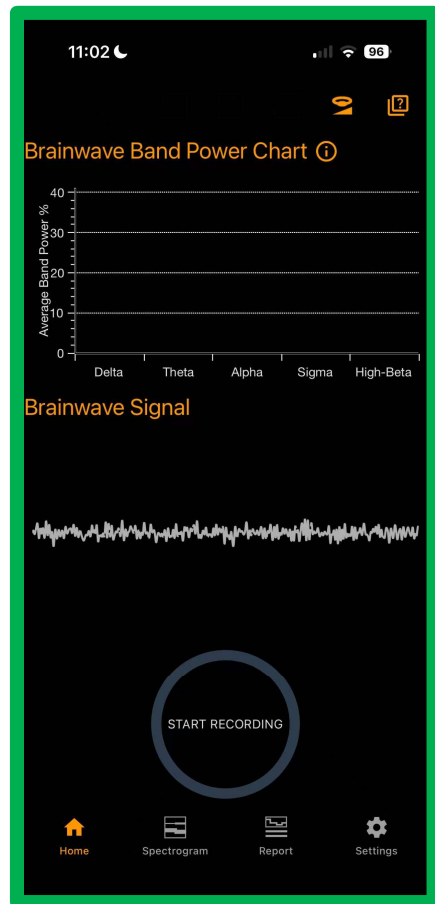
## Headband connection:

- **Managing Multiple Devices:** Avoid pairing or connecting headbands during this phase. If reconnection is required, ensure only one headband is powered on at a time. This prevents the app from inadvertently connecting to the wrong device.

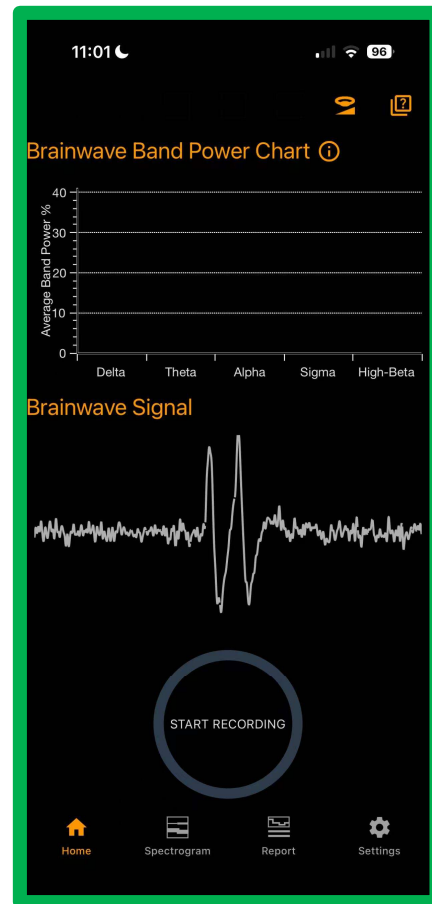
# Notes for research coordinator:

## Signal quality Validation

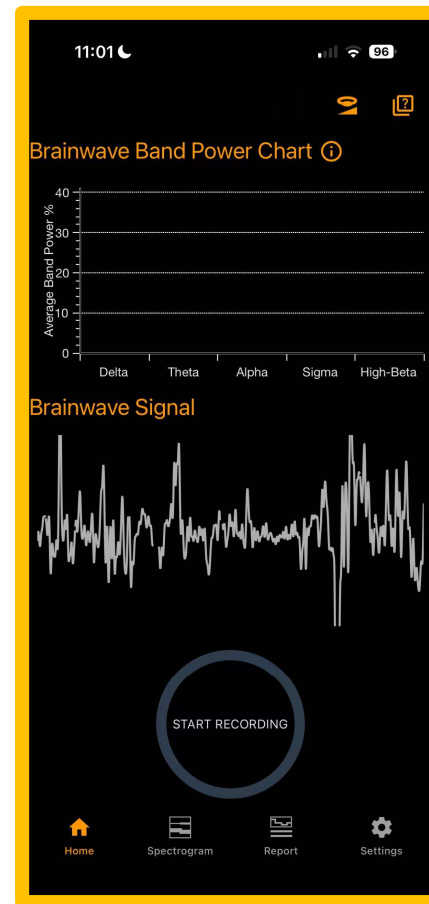
- Visually verify signal quality for each participant. If unsure, send data to the Enchanted Wave Team for technical review.
- Examples of good/bad signal:



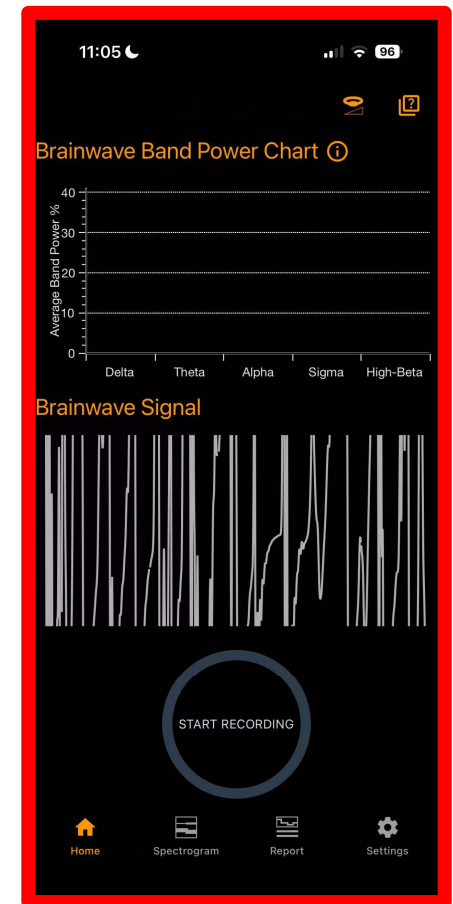
**Good: Rest state**



**Good: 2 blinks**



**Moderate  
movements**



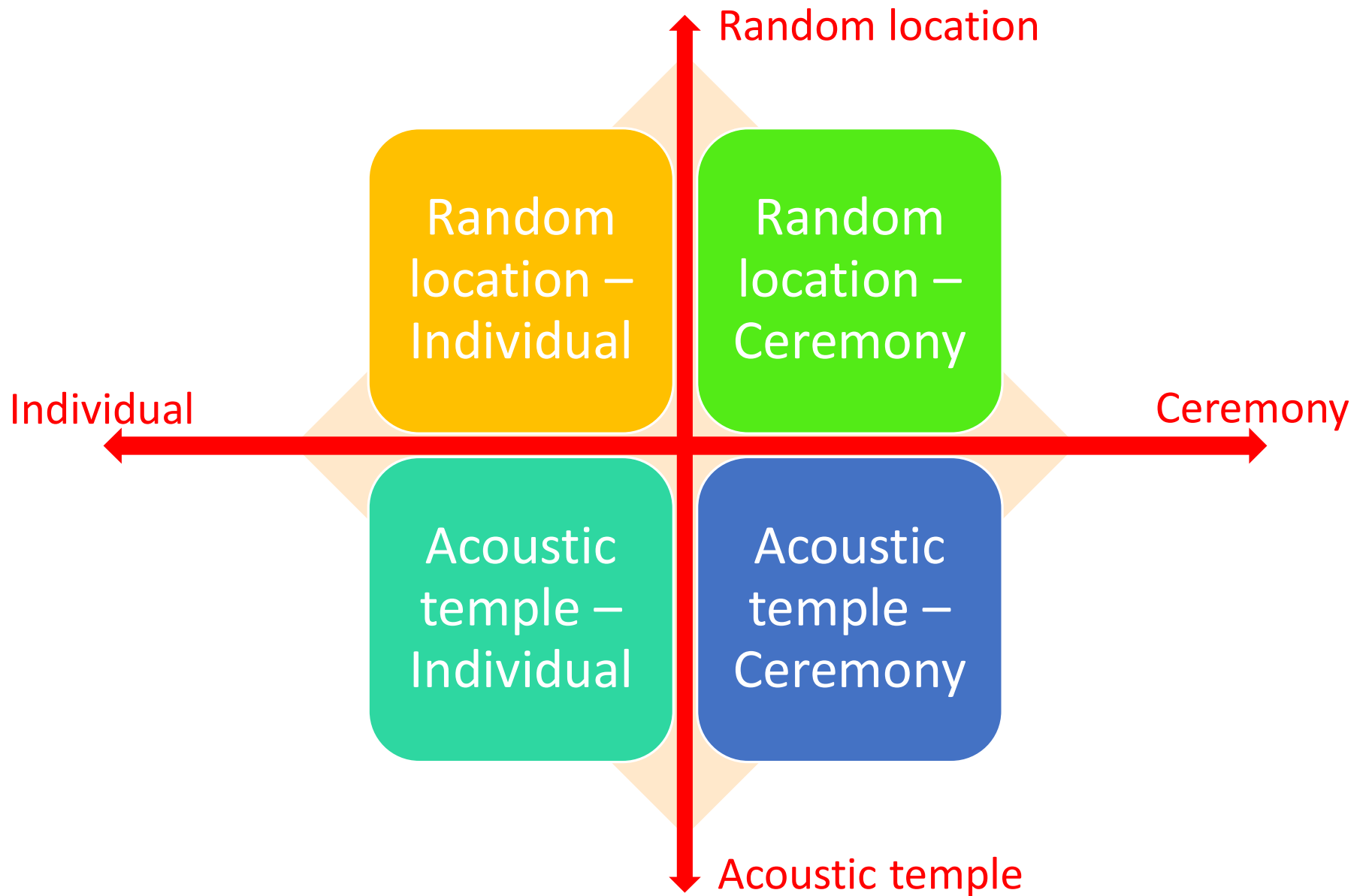
**Poor sensor/skin  
connectivity**

# Field Study Phase

➤ For research coordinators

➤ For participants

# 1. Study conditions



## 2. Procedure

- a) [ ] Wear the headband properly and start the recording.
- b) [ ] Check the signal quality.
- c) [ ] Tag Condition: At the start of each Study Condition, **double-tap the mobile app to key in the condition name.**
- d) [ ] Keep App Active: Ensure the app remains in the foreground. **Do not lock your phone or switch apps.** Note that the screen is programmed to dim automatically after 2 minutes.

# Post-Field Study Phase

➤ For research coordinators

➤ For participants

# Notes for research coordinator:

## Data Validation

- Check the data email account to make sure all the data emails have been received.

# Post-Field Study Phase

➤ For research coordinators

➤ For participants

# Final Wrap-up


1. **Data Transmission Verification:** Run a brief test session (approximately 10 seconds) while connected to stable Wi-Fi. Upon session termination, wait for the data transfer to finalize (confirm the check mark icon appears in the app).

Note on Connectivity: If the email icon continues to blink, allow additional time. Data transmission speeds in international locations may be slower than domestic (US) service.

2. **Equipment Maintenance:** Clean the headband gently with alcohol pads to maintain hygiene standards and ensure optimal signal accuracy for the next user.

3. **Equipment Return:** Return the headband when requested by the Research Coordinator.

# Additional Tips

- Before Each Use:
  - Clean the forehead and areas around the ears where sensors touch the skin.
  - After use, gently wipe sensors with a dry cloth.
  - If there's sweat or humidity, clean with an alcohol pad.
- A blinking  icon in the app means you should adjust the headband for better sensor-skin contact.
- Keep the app open during your session. Navigating away may stop data recording.
- The effective data transfer range is ~30 feet (10 meters). Obstructions may cause disconnection.
- The typical charging time is 1 hour, and a fully charged headband can last up to 12 hours.
- Need help? Scan the QR code or visit [enchantedwave.com/faq](https://enchantedwave.com/faq)

