Test Task Scenarios & Script
Subject 0001

Welcome Message (for all scenarios)
System: Intersect-Assist is an application which provides information about intersections to the visually impaired community.
System: “At any time, if you wish to skip the information being provided, please tap the screen once.”
System: “When you get to an intersection, swipe the screen downwards to know about the intersection.”
System: “You may also swipe up to start the traffic light detection“

Scenario # 1
Intersection: St-Catherine and Mackay [NE to SE Corner]
Design Prototype: Prototype 1 (Spatialized audio)

System: “Swipe down to get the mapping information. Swipe up to start the traffic light detection and veering.”

User: if swipe down, repeat last message.
User: if swipe up,

System:
[*From the front (both ears)*] “Intersection: **Mackay** and **St-Catherine, 4-way** configuration.”
[*From the right (right ear only)*] “**Mackay** is a **one-way street, two lanes.** Traffic flows in **the direction you are facing**.”
[From the front (both ears)] “**St-Catherine** is a **one-way street, two lanes.** Traffic flows from **your right to your left**.”
[*From the front (both ears)*] “**Swipe down** to repeat the mapping information. **Swipe up** to start the traffic light detection and veering.”

User: if swipe down, repeat intersection message.
User: if swipe up,

System:
[*From the front (both ears)*] “Detection started. Waiting for light to turn green.”
[*From the front (both ears, when the light turns green)*] “The light is green. Start crossing when you feel comfortable!”
[*If veers toward the left*] **“Beep** from the **left** earphone**”**
[*If veers toward the right*] **“Beep** from the **right** earphone**”**
[*When finish crossing*] “Swipe down to get the mapping information. Swipe up to start the traffic light detection and veering.”

User: if swipe down, repeat intersection message.

Scenario # 2
Intersection: Mackay and St-Catherine [SE to SW Corner]
Design Prototype: Prototype 1 (Spatialized audio)

System: “Swipe down to get the mapping information. Swipe up to start the traffic light detection and veering.”

User: if swipe down, repeat last message.
User: if swipe up,

System:
[*From the front (both ears)*] “Intersection: **Mackay** and **St-Catherine, 4-way** configuration.”
[*From the right (right ear only)*] “**St-Catherine** is a **one-way street, two lanes.** Traffic flows in the **opposite direction you are facing**..”
[From the front (both ears)] “**Mackay** is a **one-way street, two lanes**. Traffic flows from your **right to your left**.”
[*From the front (both ears)*] “**Swipe down** to repeat the mapping information. **Swipe up** to start the traffic light detection and veering.”

User: if swipe down, repeat intersection message.
User: if swipe up,

System:
[*From the front (both ears)*] “Detection started. Waiting for light to turn green.”
[*From the front (both ears, when the light turns green)*] “The light is green. Start crossing when you feel comfortable!”
[*If veers toward the left*] **“Beep** from the **left** earphone**”**
[*If veers toward the right*] **“Beep** from the **right** earphone**”**
[*When finish crossing*] “Swipe down to get the mapping information. Swipe up to start the traffic light detection and veering.”

User: if swipe down, repeat intersection message.

Scenario # 3
Intersection: Guy and Maisonneuve [SW to NW Corner]
Design Prototype: Prototype 2 (Stereo audio & Haptics for veering)

System: "Swipe down to get the mapping information. Swipe up to start the traffic light detection and veering."

User: if swipe down, repeat last message.
User: if swipe up,

System:
[From the front] "Intersection: **Guy** and **Maisonneuve**, **4-way** configuration"
[From the front] "**Guy** is a **two-way street, four lanes."**
[From the front] **"**The closest **two lanes** flow in the **opposite direction you are facing."**
[From the front] **"**The further **two lanes** flow in the **direction you are facing**."
[From the front] "**Maisonneuve** is a **one-way street, two lanes**. Traffic flows from your **right to your left.**"
[*From the front (both ears)*] "**Swipe down** to repeat the mapping information. **Swipe up** to start the traffic light detection and veering."

User: if swipe down, repeat intersection message.
User: if swipe up,

System:
[*From the front (both ears)*] "Detection started. Waiting for light to turn green."
[*From the front (both ears, when the light turns green)*] "The light is green. Start crossing when you feel comfortable!"
[*If veers toward the left*] **"Vibrate** on the **left arm band"**
[*If veers toward the right*] **"Vibrate** on the **right arm band"**
[*When finish crossing*] "Swipe down to get the mapping information. Swipe up to start the traffic light detection and veering."

User: if swipe down, repeat intersection message.

Scenario # 4
Intersection: Maisonneuve and Guy [NW to SW Corner]
Design Prototype: Prototype 2 (Stereo audio & Haptics for veering)

System: “Swipe down to get the mapping information. Swipe up to start the traffic light detection and veering.”

User: if swipe down, repeat last message.
User: if swipe up,

System:
[*From the front*] “Intersection: **Maisonneuve** and **Guy**, **4-way** configuration.”
[*From the front*] “ **Maisonneuve** is a **one-way street, two lanes**. Traffic flows in the **opposite direction you are facing.”**
[*From the front*] **“Guy** is a **two-way street, four lanes”.**
[*From the front*] **“T**he closest **two lanes** ahead flow from your **left to your right**”
[*From the front*] “**T**he other **two lanes** flow from your **right to your left**.”
[*From the front*] “**Swipe down** to repeat the mapping information. **Swipe up** to start the traffic light detection and veering.”

User: if swipe down, repeat intersection message.
User: if swipe up,

System:
[*From the front*] “Detection started. Waiting for light to turn green.”
[*From the front, when the light turns green*] “The light is green. Start crossing when you feel comfortable!”
[*If veers toward the left*] **“Vibrate** on the **left arm band”**
[*If veers toward the right*] **“Vibrate** on the **right arm band”**
[*When finish crossing*] “Swipe down to get the mapping information. Swipe up to start the traffic light detection and veering.”

User: if swipe down, repeat intersection message.