**Testing Plain for RCP with NAV and CDU Simulator:**

**Test 1: RCP Testing with NAV:**

HW Requirements:

* 1 PC
* 1 RCP
* 1 NAV
* 1 Cable for Serial Debugger

SW Requirements:

* RCP\_NAV Github Project
* Stm32CubeIDE

Client Side Requirements:

* Physical Presence of a Person to ensure us every proper connectivity
* Change the frequency or volume by rotating nob or button press.

Connectivity:

PC

RCP

NAV

UART4

Serial

debug

Objectives:(Debugging the Code)

* Bring-up Basic Functionalities
* How Reading and Writing occur on uart4
* To check whether it transmit the initial data after reset.

**Test 2: Interfacing CDU Simulator with RCP:**

HW Requirements:

* 1 PC
* 1 RCP
* 1 NAV
* 1 Cable for Serial Debugger

SW Requirements:

* RCP\_NAV Github Project(with an extra file along with the changes in main.c file)
* Stm32CubeIDE
* Python Code for CDU Simulator (inc. Installing all the necessary python libraries to setup environment)

Client Side Requirements:

* Physical Presence of a Person to ensure us every proper connectivity
* Change the frequency or volume by rotating nob or button press.

UART5

Connectivity:

NAV

RCP

CDU Simulator

UART4

Serial

debug

Objectives:

* Data ping-pong between CDU and RCP to ensure Synchronization