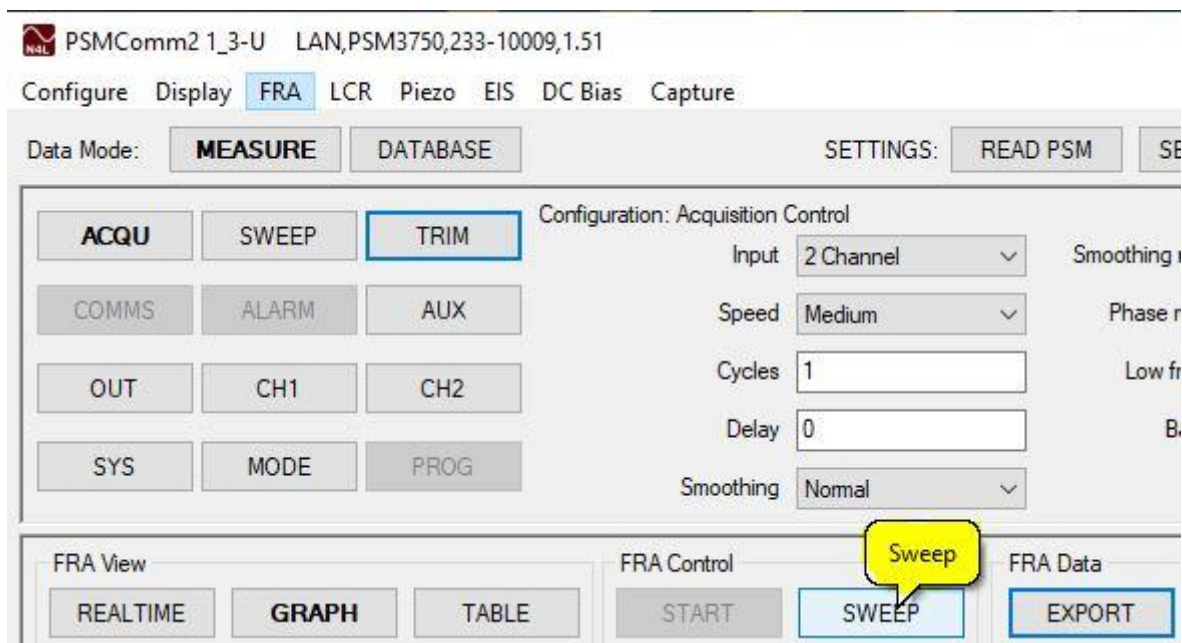


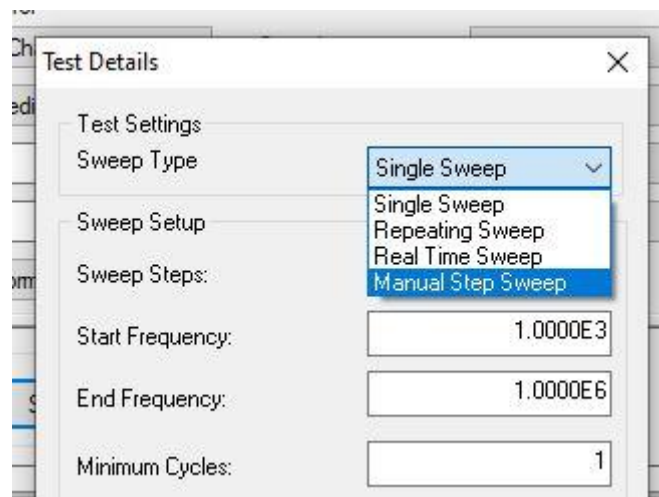
PSMComm2 FRA Sweep using User selected frequency points.

These instructions explain how to perform an FRA sweep using user selected frequency points.

Having connected to the instrument, click on the **FRA** tab, and then click Sweep.



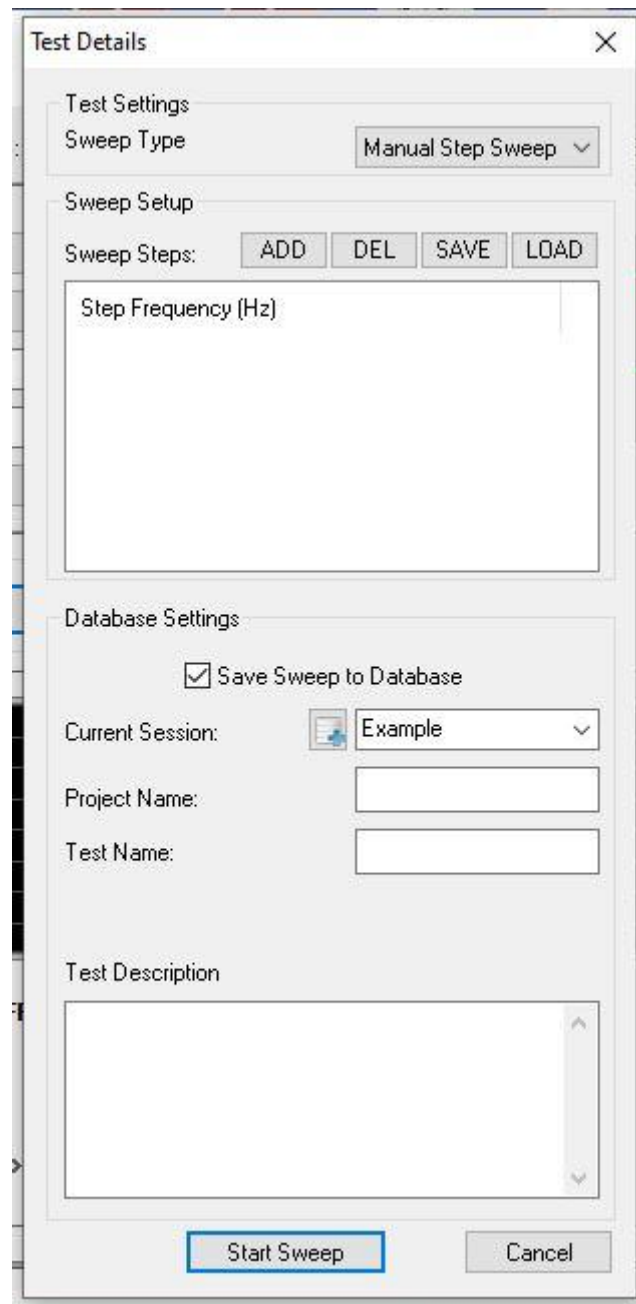
The **TEST DETAILS** window is displayed.



In the **SWEEP TYPE** drop menu, there is a new option called **MANUAL STEP SWEEP**.

Default settings were used for the other parameters.

The **TEST DETAILS** window is then updated to display the **SWEEP STEP** options:



The image shows a 'Test Details' dialog box with a close button (X) in the top right corner. It is divided into three main sections: 'Test Settings', 'Sweep Setup', and 'Database Settings'.

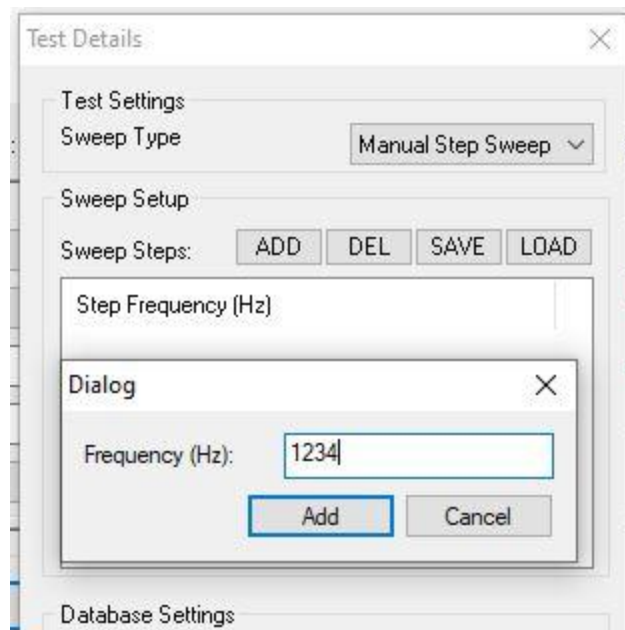
- Test Settings:** Contains a 'Sweep Type' dropdown menu currently set to 'Manual Step Sweep'.
- Sweep Setup:** Contains a 'Sweep Steps:' label followed by four buttons: 'ADD', 'DEL', 'SAVE', and 'LOAD'. Below these is a large text area labeled 'Step Frequency (Hz)'.
- Database Settings:** Contains a checked checkbox labeled 'Save Sweep to Database'. Below this is a 'Current Session:' label with a small icon and a dropdown menu showing 'Example'. There are also empty text input fields for 'Project Name:' and 'Test Name:'. At the bottom of this section is a 'Test Description' label and a large text area.

At the bottom of the dialog box are two buttons: 'Start Sweep' (highlighted with a blue border) and 'Cancel'.

These options are described below:

Click on **ADD** to display the **Frequency selection** Dialog window:

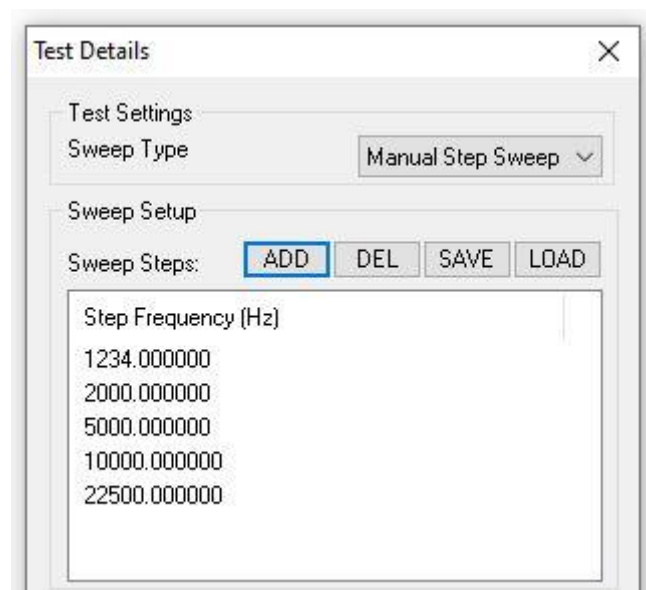
Enter the required **Frequency** and press **Add** to enter the frequency:



The frequency will be entered into the software window.

Press **ADD** again to enter the next frequency point.

Repeat this process until all of the required frequency points have been entered.



In this example 5 steps have been added.

The 'Test Details' dialog box is shown with the following settings:

- Test Settings:** Sweep Type is set to 'Manual Step Sweep'.
- Sweep Setup:** Sweep Steps: ADD, DEL, SAVE, LOAD. The list of Step Frequency (Hz) contains five values: 1234.000000, 2000.000000, 5000.000000, 10000.000000, and 22500.000000.
- Database Settings:** ☒ Save Sweep to Database. Current Session: Example (dropdown). Project Name: Manual Tests. Test Name: Test 1. Database Name: "Test 1". Test Description: (empty text area).
- Buttons:** Start Sweep (highlighted), Cancel.

You will need to select if the sweep is to be added to the database or not.

The **Current Session**, **Project Name** and **Test Name** will need to be entered if the sweep is to be added to the database.

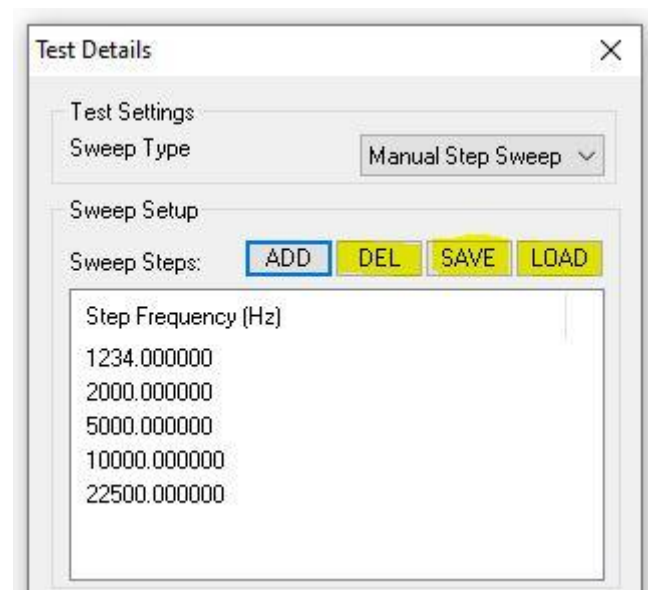
Press **START SWEEP** to perform the sweep using the entered frequency points.

The screenshot below is of the **TABLE** viewing option:

[illegible]

The Frequencies displayed in the table are the entered by the user.

Other **SWEEP STEP** options:



The cursor can be used to reorder the frequencies entered in the software. Highlight the frequency to be moved and drag it to the new position.

DEL - Highlight the required frequency and click on DEL to delete the entry from the list.

SAVE - Click on the option to save the User entered frequencies to a Text (*.txt) file.

LOAD - Click on this option to load in the contents of a saved or newly created text file into the software.

Example Text file showing the different formats that can be used to enter frequencies.



The screenshot shows a Notepad window with the title bar '*Manual sweep.txt - Notepad'. The menu bar includes 'File', 'Edit', 'Format', 'View', and 'Help'. The text area contains a list of frequencies, each on a new line, demonstrating various input formats: 1000, 2000, 2400, 2600, 2900, 2950, 3000, 3500, 5000, 6k, 7000, 8000, 10000, 15000, 25000, 25500, 25700, 25800, 26000, 28000, 30000, 40000, 50000, 60000, 75000, 80000, 82123, 85148, 89999, 92000, 100000, 200000, 300000, 400000, 500000, 0.6M, 0.7M, 0.8M, 0.9M, and 1M. A vertical scrollbar is visible on the right side of the text area.

```
*Manual sweep.txt - Notepad
File Edit Format View Help
1000
2000
2400
2600
2900
2950
3000
3500
5000
6k
7000
8000
10000
15000
25000
25500
25700
25800
26000
28000
30000
40000
50000
60000
75000
80000
82123
85148
89999
92000
100000
200000
300000
400000
500000
0.6M
0.7M
0.8M
0.9M
1M
```