Our Node-RED flow is composed by:

* Inject node: This node is active manually and start all the flow process.
* File input node: Reads line by line the content of the csv file (located at /home/user/Desktop/iot-feeds.csv), passing to the CSV node each element.
* CSV node: Converts the input CSV string into a javascript object.
* Function1 node: Returns to the delay node only the messages that have code between 4742 and 4842. Moreover, changes the payload with the field5 value.
* Function2 node: Returns to the delay node only the messages that have code between 4742 and 4842. Moreover, change the topic with “channels/1712151/publish" and the payload with "field1="+msg.payload.field1+"&field2="+msg.payload.field2+"&field5="+msg.payload.field5 in order to communicate with ThingSpeak.
* Delay nodes: both function nodes are connected with a delay node, which limits the sent messages rate to one every 30 seconds. (ThingSpeak rate input limit). The Function1 delayed messages goes to chart node while Function2 delayed messages goes to MQTT node.
* Chart node: This node draws the chart of the RSSI values over time.
* MQTT node: This node forwards the delayed messages to ThingSpeak.

To store the data on ThingSpeak we just started the flow from the injection node and waited for 50 minutes.