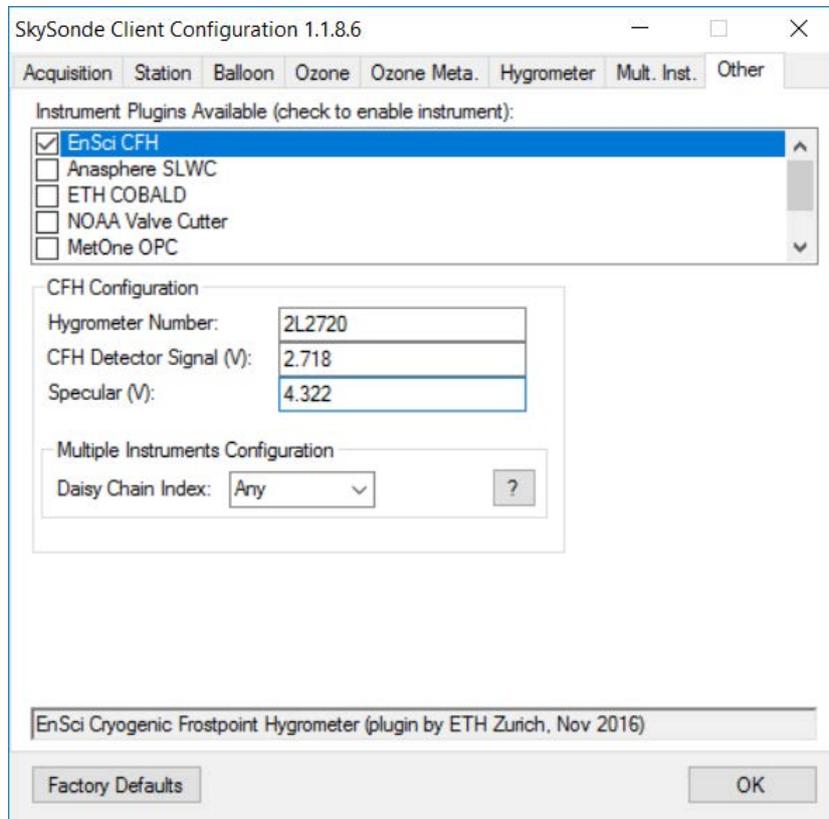
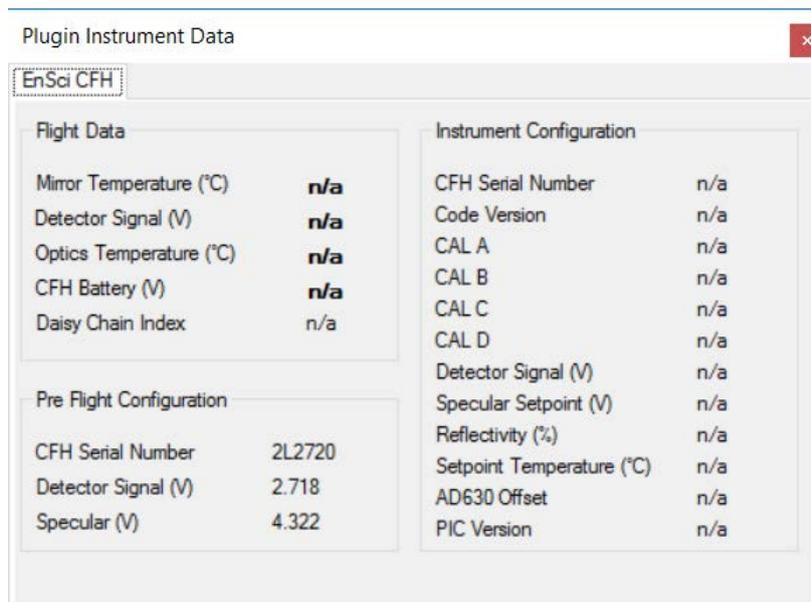


CFH Plugin Test

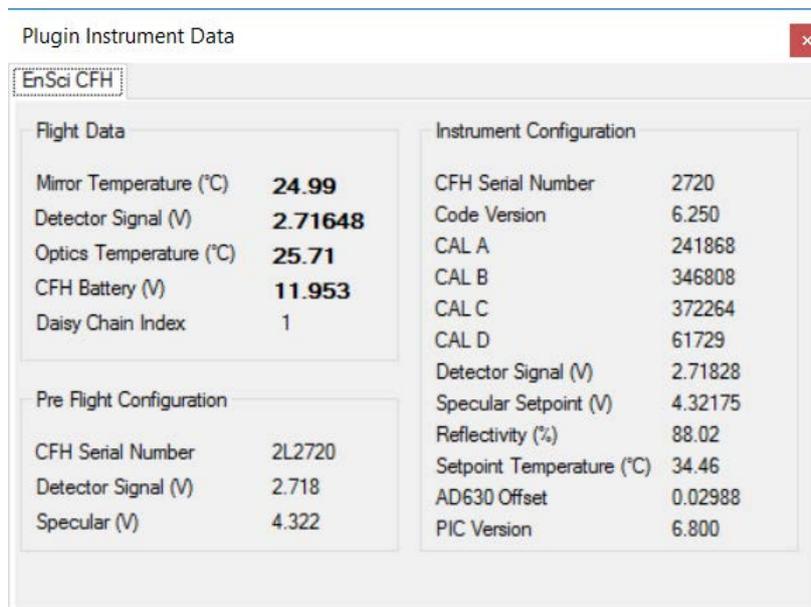
The CFH plugin can be tested playing the sample audio file *ZH_DECODE.WMA* on a MP3 device connected to the PC microphone input. Before starting the replay, CFH configuration values can be entered:



which appear at the left bottom of the plugin data window after pressing 'OK'



After about half a minute of audio the window should look like



The screenshot shows a window titled 'Plugin Instrument Data' with a close button (X) in the top right corner. The window contains a tab labeled 'EnSci CFH'. The data is organized into three sections: 'Flight Data', 'Pre Flight Configuration', and 'Instrument Configuration'. The 'Flight Data' section shows real-time values for Mirror Temperature (24.99°C), Detector Signal (2.71648V), Optics Temperature (25.71°C), CFH Battery (11.953V), and Daisy Chain Index (1). The 'Pre Flight Configuration' section shows values for CFH Serial Number (2L2720), Detector Signal (2.718V), and Specular (4.322V). The 'Instrument Configuration' section shows values for CFH Serial Number (2720), Code Version (6.250), CAL A (241868), CAL B (346808), CAL C (372264), CAL D (61729), Detector Signal (2.71828V), Specular Setpoint (4.32175V), Reflectivity (88.02%), Setpoint Temperature (34.46°C), AD630 Offset (0.02988), and PIC Version (6.800).

Flight Data		Instrument Configuration	
Mirror Temperature (°C)	24.99	CFH Serial Number	2720
Detector Signal (V)	2.71648	Code Version	6.250
Optics Temperature (°C)	25.71	CAL A	241868
CFH Battery (V)	11.953	CAL B	346808
Daisy Chain Index	1	CAL C	372264
		CAL D	61729
		Detector Signal (V)	2.71828
		Specular Setpoint (V)	4.32175
		Reflectivity (%)	88.02
		Setpoint Temperature (°C)	34.46
		AD630 Offset	0.02988
		PIC Version	6.800

Pre Flight Configuration	
CFH Serial Number	2L2720
Detector Signal (V)	2.718
Specular (V)	4.322

with SkySonde having produced a data recording file similar to *zh999_20170410.cs* which has the CFH configuration data (both pre- and transmitted) in its header:

NOAA/GMD balloon flight data file

```
SkySonde Client Version:, 1.1.8.6
Balloon Flight Name:, zh999
Attached Instruments:, Radiosonde
Station Name:, Zurich, CH
Station Latitude:, 47.37929
Station Longitude:, 8.54872
Station Altitude:, 510.00 [m]
Station Pressure:, 1020.00 [mb]
Station Temperature:, 18.000 [deg C]
Station Humidity:, 45.000 [% RH]
Radiosonde Serial Number / ID:,
Pressure/Altitude Source:, iMet Radiosonde
Solar Radiation Correction:, Yes
CFH Plugin built:, Nov 2016
CFH Hygrometer Number:, 2L2720
CFH PreFlight Detector Signal:, 2.718
CFH PreFlight Specular:, 4.322
CFH Transmitted Serial Number:, 2720
CFH CodeVersion:, 6.250
CFH Cal A:, 241868
CFH Cal B:, 346808
CFH Cal C:, 372264
CFH Cal D:, 61729
CFH Detector Signal:, 2.71828
CFH Specular Setpoint:, 4.32175
CFH Reflectivity:, 88.01826
CFH Setpoint Temperature:, 34.457
CFH AD 630 Offset:, 0.0298789978027344
CFH PIC Version:, 6.800
CFH Daisy Chain Index:, 1
```

...