

LabVIEW GUI Examples by Novator Solutions

BASIC

ACTISONIC

VIRTUAL SUB

PROTECT

EVALUATE

NEW MEASUREMENT



Browse from file

Recording progress (%)



TARGET View

Don't care limits

Low freq [Hz]
123.66

High freq [Hz]
12571.9

Roll-offs

Start freq [Hz] Start slope [dB/octave]
315.79 24

Stop freq [Hz] Stop slope [dB/octave]
9543.93 24

Manipulation points

Gain	C F [Hz]	Bandwidth
5.20	1000.00	0.50
-8.00	1072.00	0.50

Remove

Add

Edit highlighted manipulation point



Post Gain

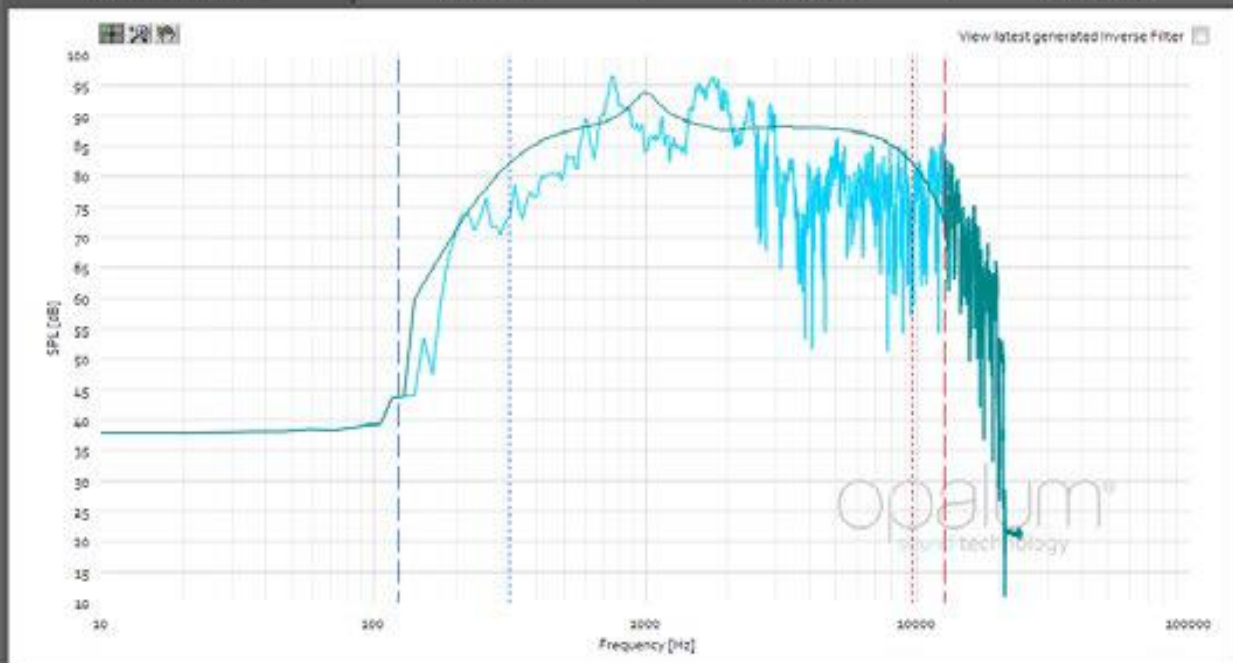
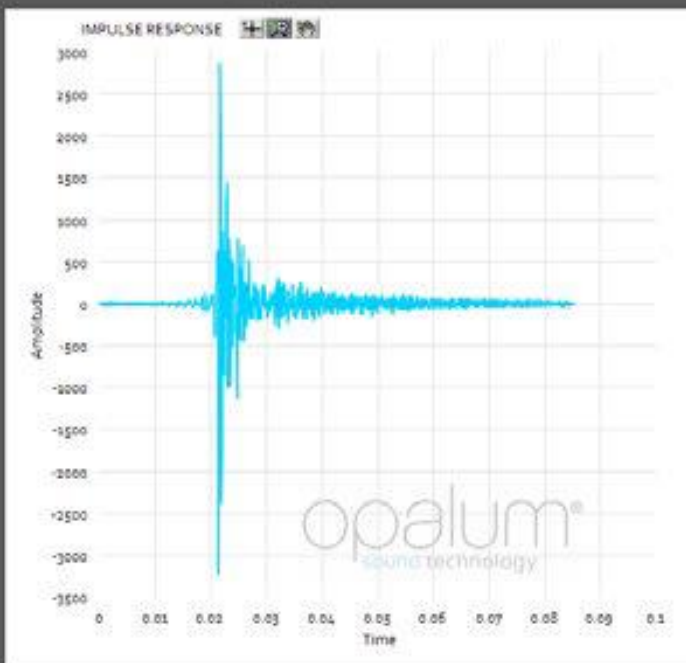


FREQUENCY RESPONSE

GROUP DELAY

WATERFALL CSO

SPECTROGRAM



View Average

Measurement

Measurement 0

Measurement
Measurement 0

Edit measurement color



Edit measurement note

Remove measurement

Update Inverse Filter

REPORT

- Start New
- Add from Actions
- View current contents
- Generate

COMPILE & DEPLOY

- Project to platform

HARDWARE SETUP

Output: Realtek HD Audio (Realtek High Definition Audio)	Primary microphone: Microphone (Realtek High Definition Audio)	Excursion: ---	Current: ---	Voltage & External Source: ---	Sample Rate: 44100 Hz
-------------------------------------------------------------	-------------------------------------------------------------------	-------------------	-----------------	-----------------------------------	--------------------------

BASIC

ACTISONIC

VIRTUAL SUB

PROTECT

EVALUATE

DYNAMIC RANGE CONTROL

bands

4

#	Start [Hz]	Stop [Hz]	Threshold [dB]	Pre-gain	Inverted
1	-	206.0	-0.7	1.0	No
2	206.0	3528.8	-0.7	1.0	No
3	3528.8	3708.7	-0.6	1.0	No
4	3708.7	-	0.0	1.0	No
5					

Highlighted band

Start [Hz]	Stop [Hz]	Threshold [dB]	Pre Gain	Invert
206	3528	-0.7	1	<input type="checkbox"/>

NONLINEAR DYNAMICS View

Polynomial type

EXP2

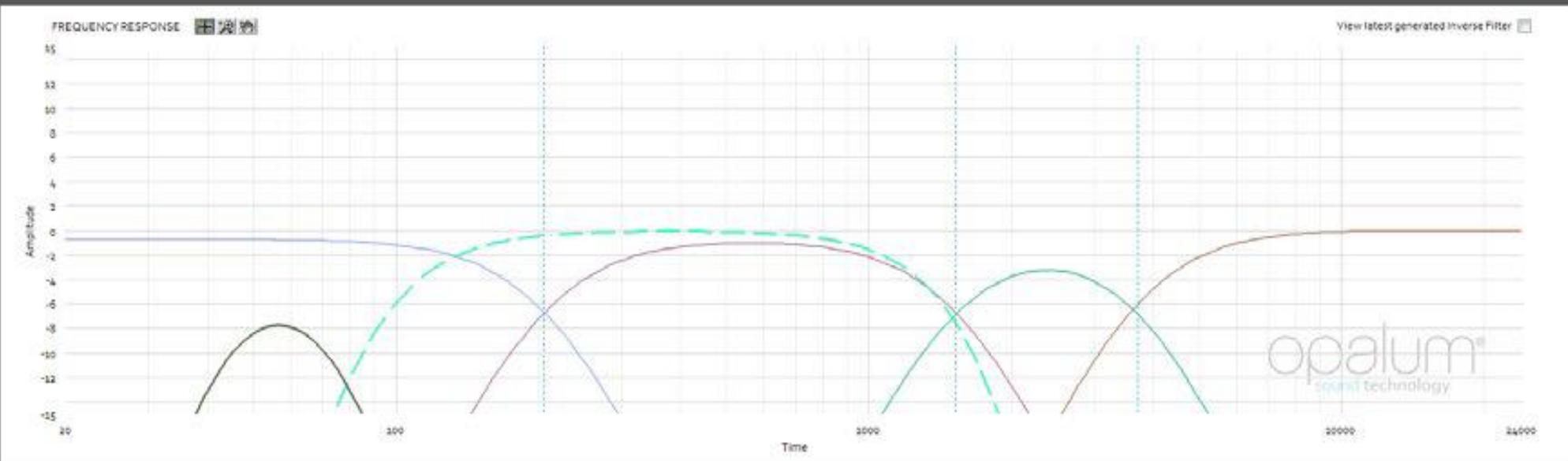


Fundamental band (solid line)

Start freq [Hz]	Start slope [dB/oct]
40	24
Stop freq [Hz]	Stop slope [dB/oct]
80	24

Harmonic band (dashed line)

Start freq [Hz]	Start slope [dB/oct]
80	24
Stop freq [Hz]	Stop slope [dB/oct]
2000	28



REPORT

Start New

Add from Virtual Sub

View current contents

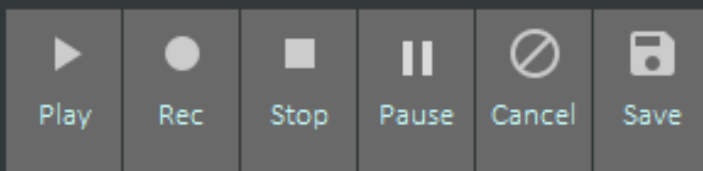
Generate

COMPILE & DEPLOY

Project to platform

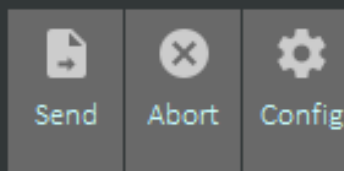
HARDWARE SETUP

Output	Primary microphone Microphone (Realtek High Definition Audio)	Excursion	Current	Voltage & External Source	Example Plot LabView
--------	------------------------------------------------------------------	-----------	---------	---------------------------	-------------------------



Operator _____

Comment _____



Span

5



Start Time

00:00:00,000 YYYY-MM-DD



Setup

	Test Name	Comment
2020-03-13 12:11:34	Configuration 1	first test
2020-03-13 12:11:34	Configuration 2	second test
2020-03-13 12:11:34	Configuration 2020-02-14	first executed test
2020-03-13 12:11:34	Test Config	delete
2020-03-13 12:11:34	Copy of test	delete
2020-03-13 12:11:34		

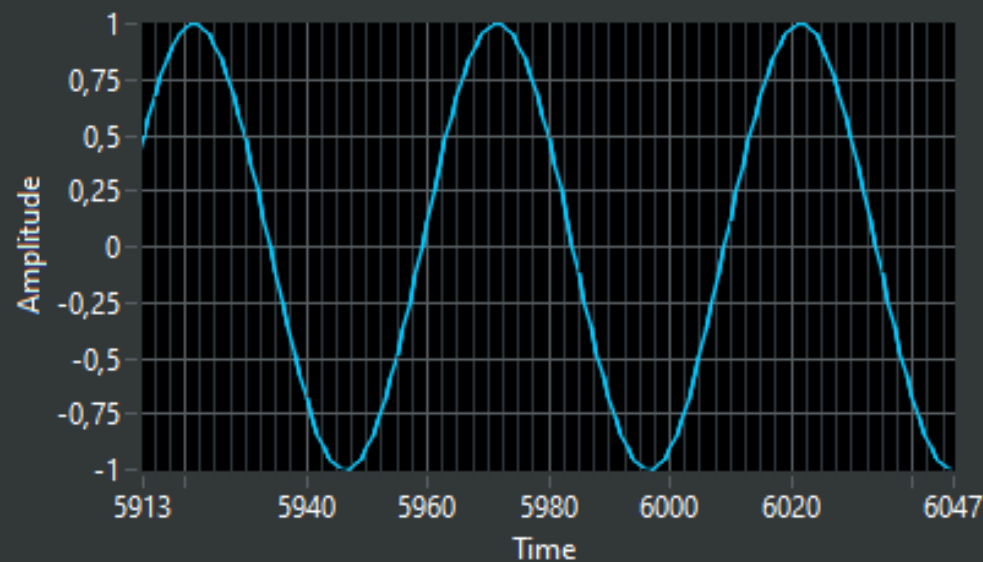
Width

0 0,1 0,2 0,3 0,4 0,5 0,6 0,7 0,8 0,9 1

Height

0 0,1 0,2 0,3 0,4 0,5 0,6 0,7 0,8 0,9 1

Waveform Chart



Back

Now

Forward



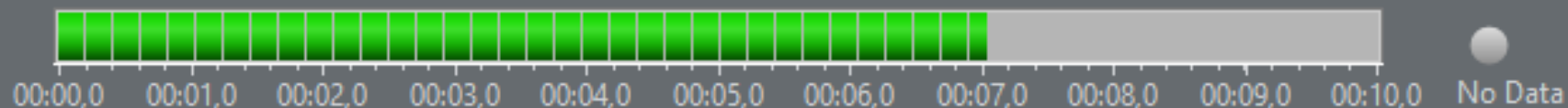
IF1/A Active

Armed

Record

Output File

1A_yyyymmdd_HHMMSS.BIQ



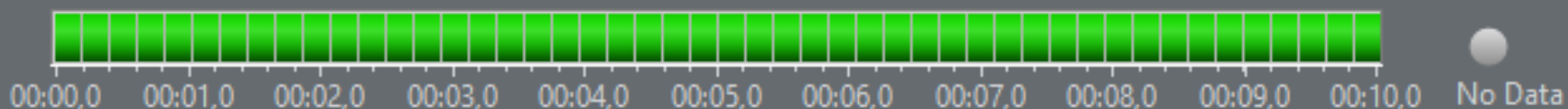
IF1/B Active

Armed

Record

Output File

1B_yyyymmdd_HHMMSS.BIQ



IF2/A Inactive

Unarmed

Record

Output File

Reserved for Real-Time Spectrum Analysis



Recording

Meta Data

Playback

Advanced

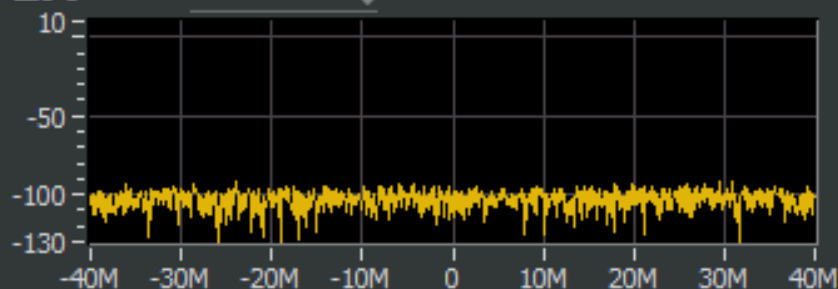


1A

IQ

80 MHz

Remaining Time 00:11:11



Rec

Meta Data

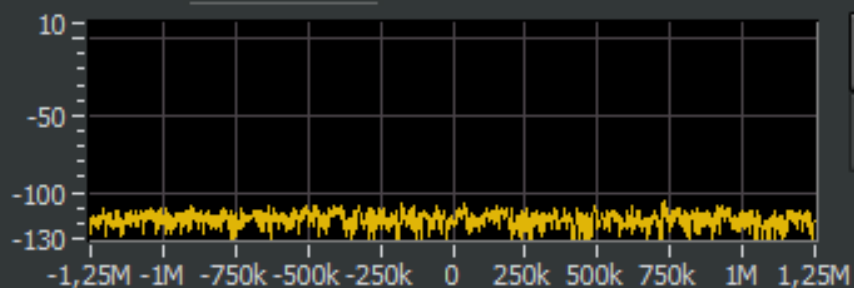
Cancel

1B

IQ

2.5 MHz

Remaining Time 05:57:51



Rec

Stop



2

IQ

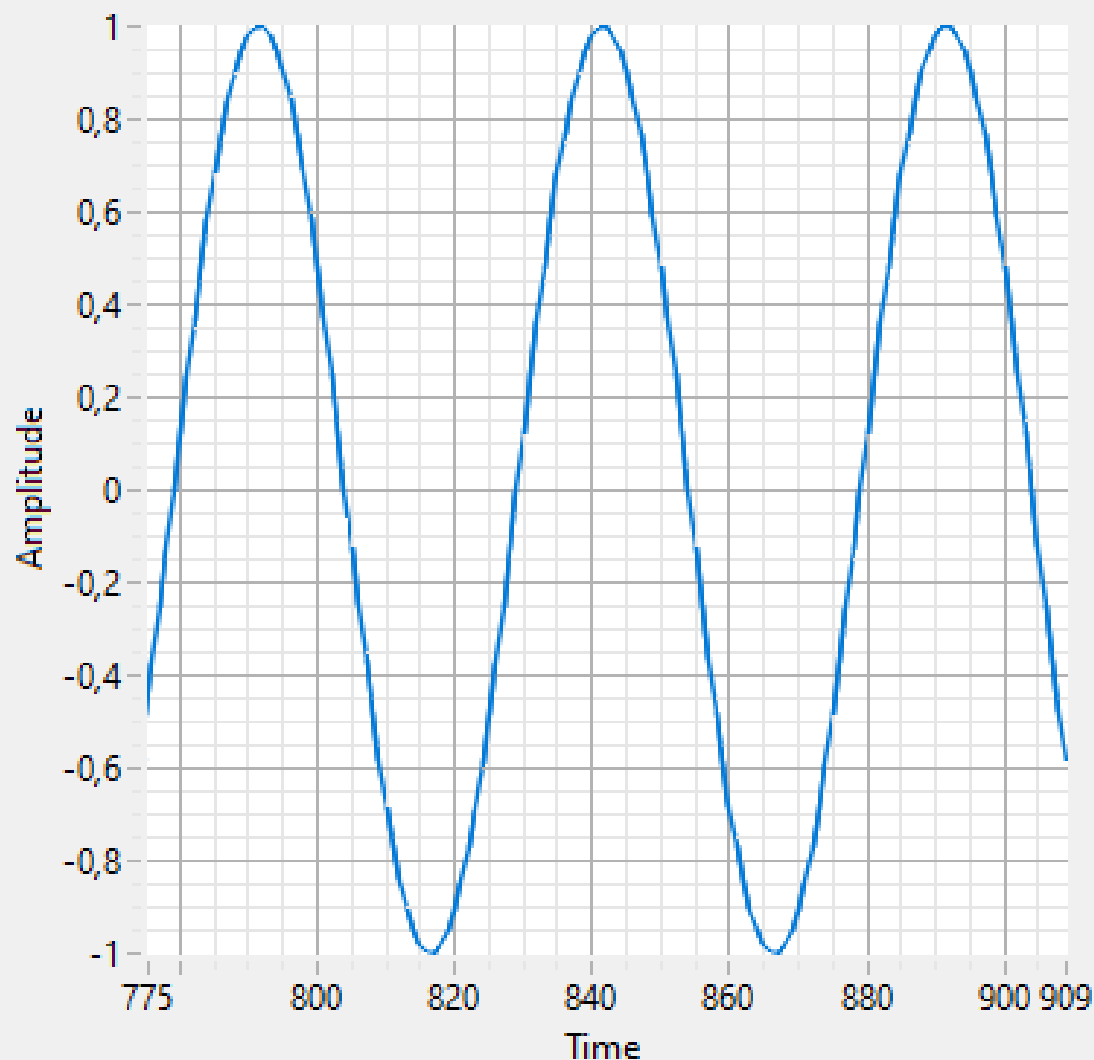
Remaining Time Unavailable



Rec

Stop

	Play
	Rec
	Send
	Cancel
	Config
	Abort
	Save
	Pause



Listbox

Lorem ipsum dolor sit amet, consectetur adipiscing
 elit, sed do eiusmod tempor incididunt ut labore
 et dolore magna aliqua. Ut enim ad minim veniam, q
 uis nostrud exercitation ullamco laboris nisi ut a
 liquip ex ea commodo consequat. Duis aute irure do
 lor in reprehenderit in voluptate velit esse cillum
 m dolore eu fugiat nulla pariatur. Excepteur sint
 occaecat cupidatat non proident, sunt in culpa qui
 officia deserunt mollit anim id est laborum.

Cur

abitur pretium tincidunt lacus. Nulla gravida orci
 a odio. Nullam varius, turpis et commodo pharetra
 , est eros bibendum elit, nec luctus magna felis s
 ollicitudin mauris. Integer in mauris eu nibh euis
 mod gravida. Duis ac tellus et risus vulputate veh
 icula. Donec lobortis risus a elit. Etiam tempor.

Application for roller bearing measurements

Mounting of Bearings

Bearing Configuration

Channel	Calibration File	Slot Mode	Threshold [%]	Margin [%]	Gain
<input checked="" type="checkbox"/> X1	C:\Novator\...ation\FOS0013_20190326T205004.json	<input type="checkbox"/>	0,15	0,05	0
<input checked="" type="checkbox"/> X2	C:\Novator\...ation\FOS0040_20190326T204828.json	<input type="checkbox"/>	0,15	0,05	0
<input type="checkbox"/>	%	<input type="checkbox"/>	0,15	0,05	0
<input type="checkbox"/>	%	<input type="checkbox"/>	0,15	0,05	0

Connection Test

TEST CONNECTION

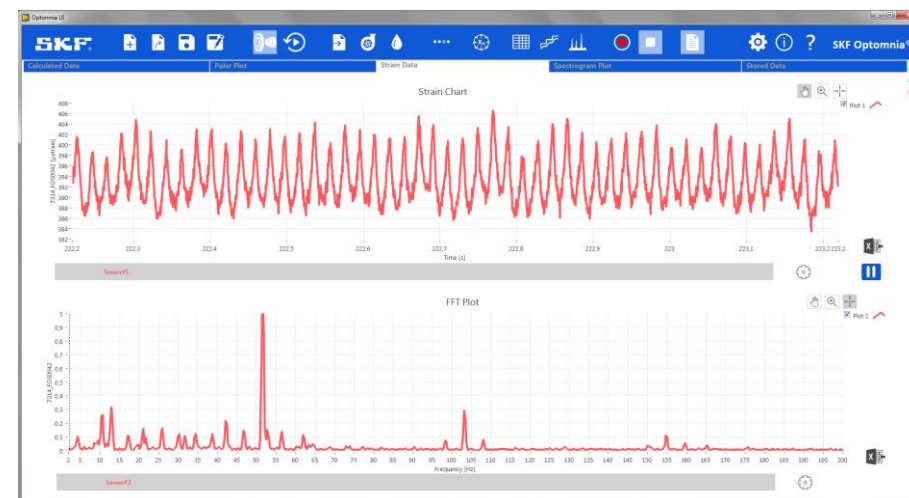
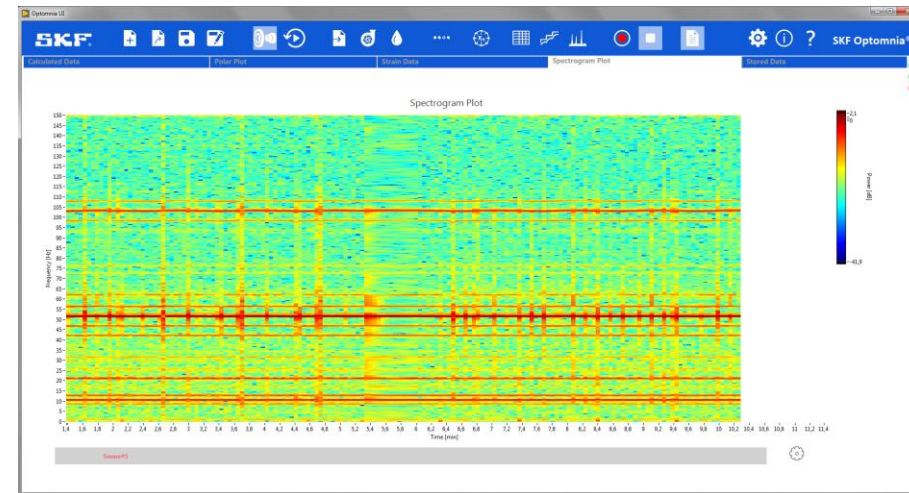
X1: Success (Green circle)
X2: Success (Green circle)
X3: (Grey circle)
X4: (Grey circle)

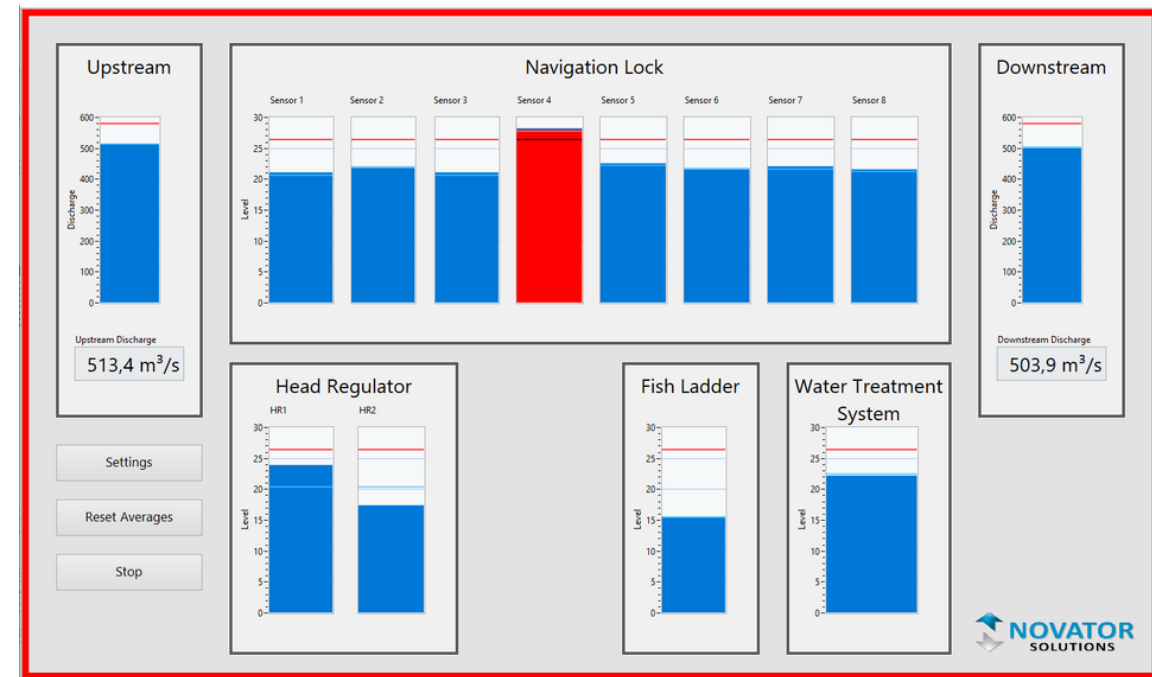
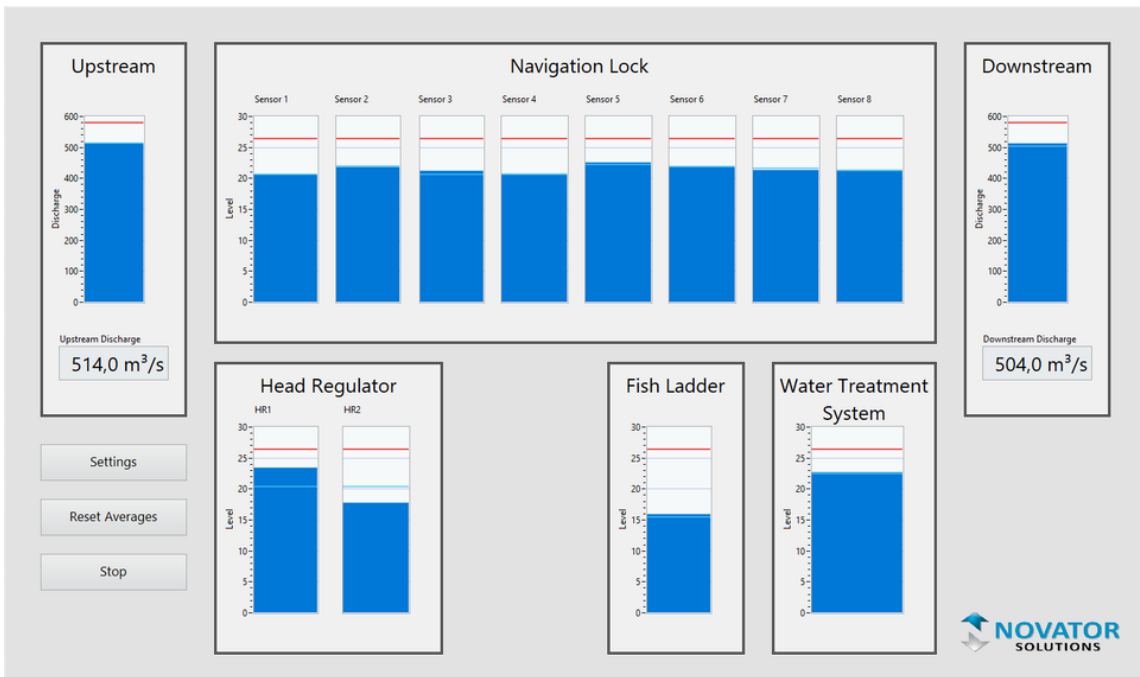
Nominal Peaks: X1: 13, X2: 14
High Threshold Peaks: X1: 13, X2: 14
Low Threshold Peaks: X1: 13, X2: 14

Gains: X1: 1:3, 2:0, 3:0, 4:0; X2: 1:3, 2:0, 3:0, 4:0

Spectrum

Amplitude vs Frequency [Hz]. Peaks at FOS0013 and FOS0040.





Water level and flow monitoring with instantaneous and historical values, and configurable warning levels

