

**Manual**  
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# SensorDataProcessor

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# Chart features

The background of the slide features a complex, abstract network diagram. It consists of numerous small, light-colored nodes (dots) interconnected by thin, white lines, forming a dense, web-like structure. The nodes and lines are more prominent in the lower right quadrant and fade into the dark background towards the upper left. The overall aesthetic is technical and data-oriented.

# Sensor log file format

**SensorDataProcessor** is a program that reads sensor data log files, visualizes the data as charts, processes it, and calculates statistical values.

The format of the sensor data log files that this program can open is shown on the right. The data is recorded in the format of 'Date and Time, Sensor ID, Value,' with all entries arranged in chronological order. A single log file may contain data from multiple sensor IDs.

## Example of a sensor log file

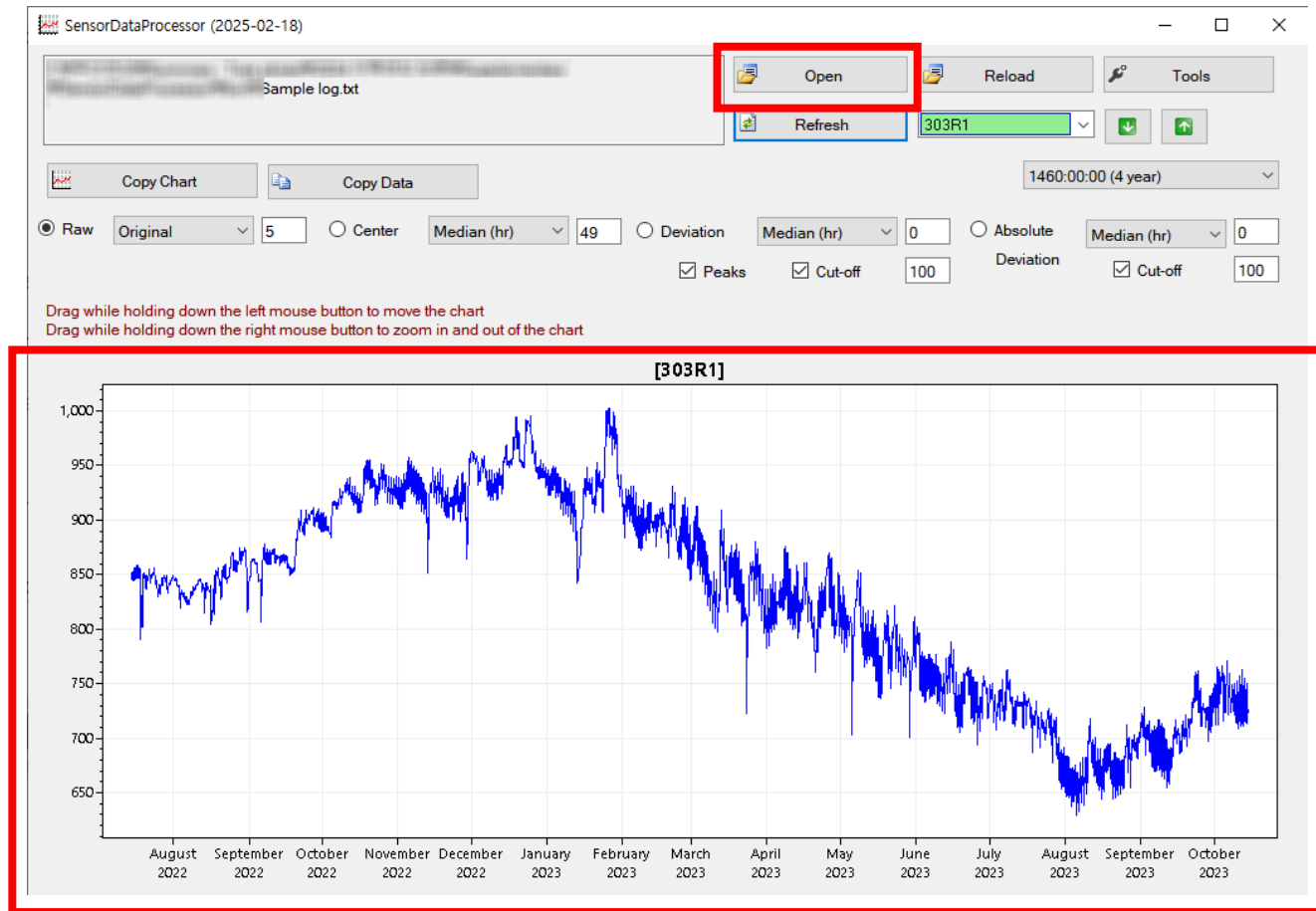
```
2022-07-15 00:17:10,304R1,863
2022-07-15 00:20:10,305R1,854
2022-07-15 00:27:29,303R1,846
2022-07-15 00:47:13,304R1,864
2022-07-15 00:52:04,305R1,854
2022-07-15 00:58:30,303R1,847
2022-07-15 01:17:17,304R1,864
2022-07-15 01:23:58,305R1,855
2022-07-15 01:29:30,303R1,847
2022-07-15 01:47:20,304R1,865
2022-07-15 02:00:31,303R1,848
2022-07-15 02:17:24,304R1,866
2022-07-15 02:27:48,305R1,856
2022-07-15 02:31:31,303R1,848
2022-07-15 02:47:27,304R1,867
2022-07-15 02:59:42,305R1,857
2022-07-15 03:02:32,303R1,849
2022-07-15 03:17:31,304R1,868
```

# Loading sensor log file

Step 1: Click the "Open" button at the top to select a sensor log file

Step 2: The selected sensor data will be visualized in the chart.

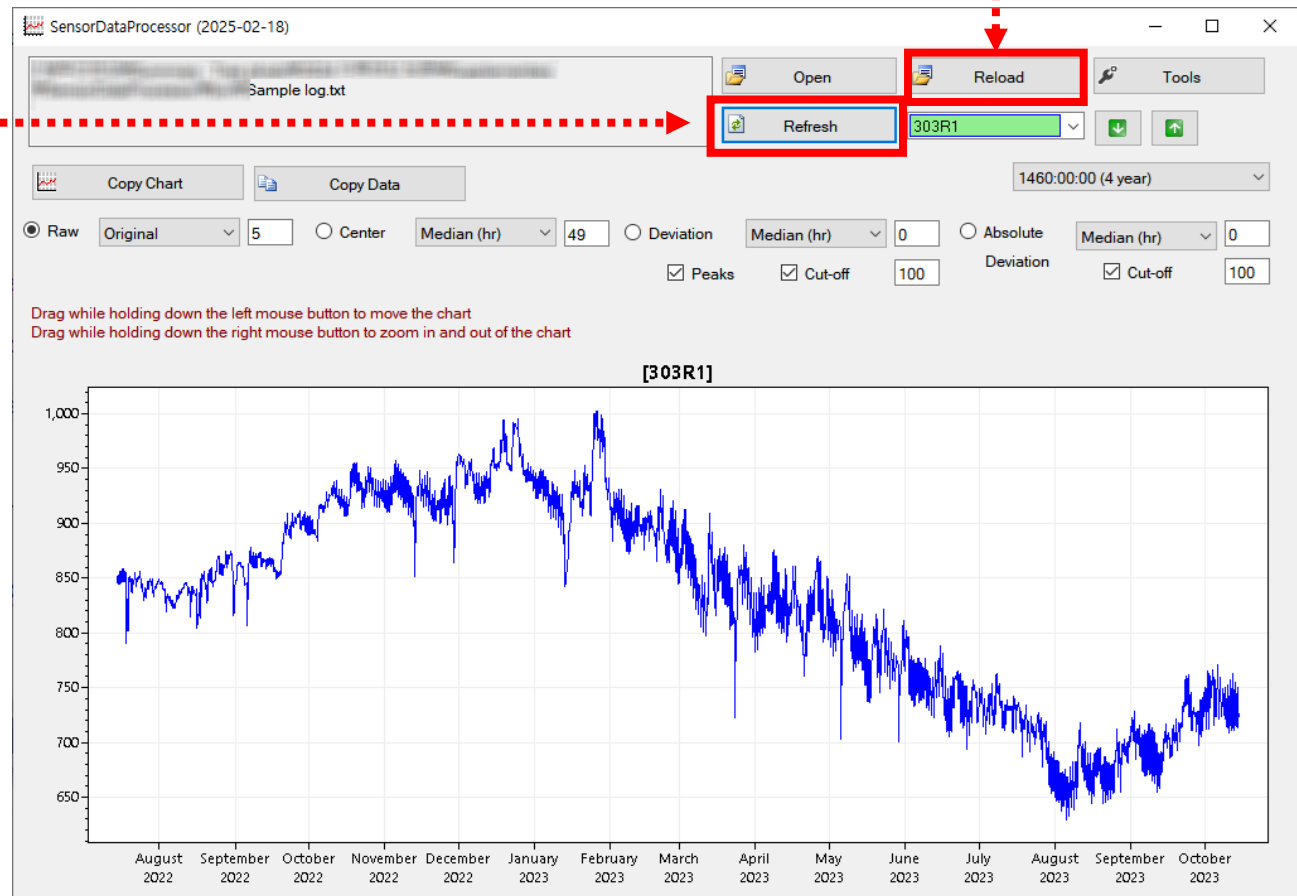
A sample log file, *sample log.txt*, is included in the folder where the SensorDataProcessor executable is located. Users can open this file.



# Loading sensor log file

Reload: Reload the current sensor log file

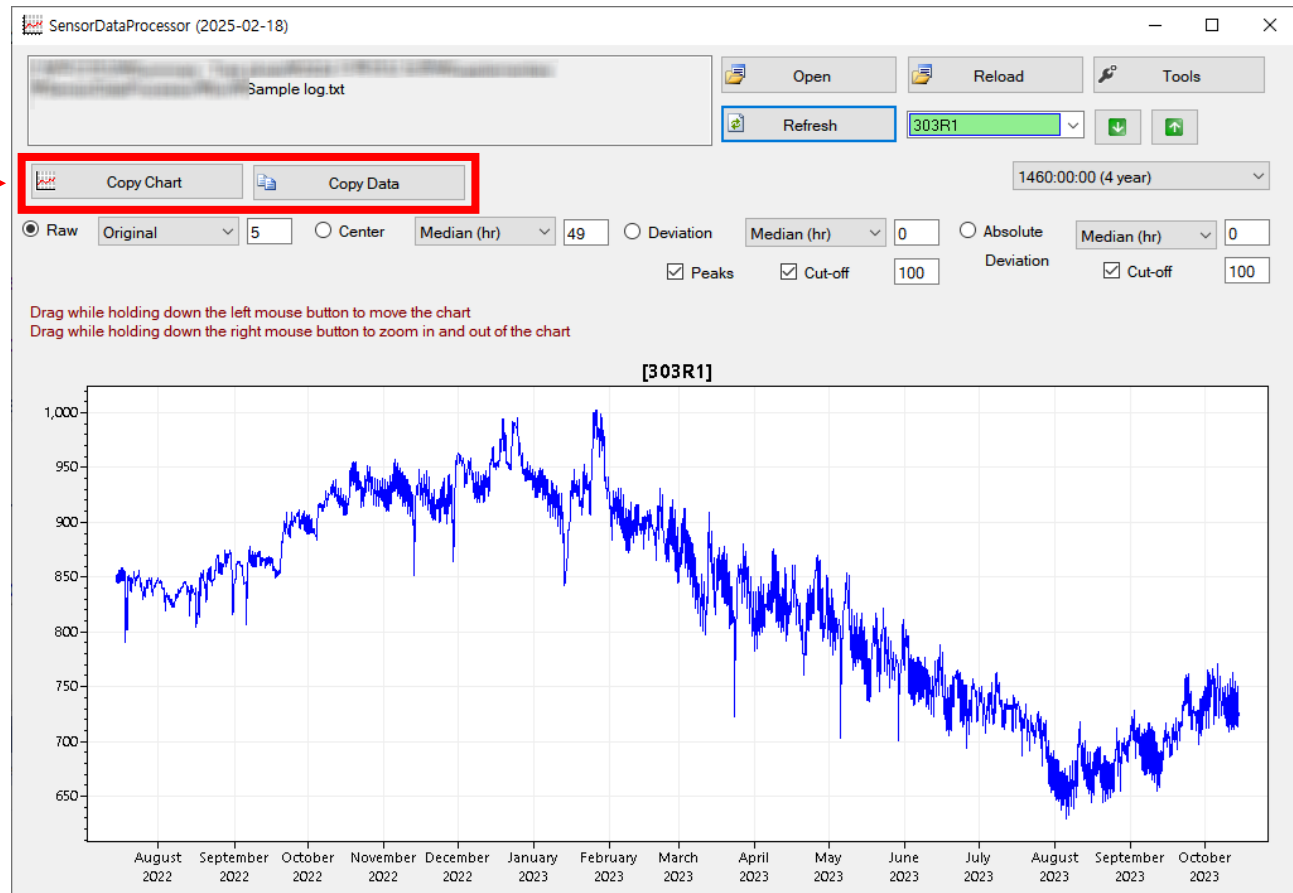
Refresh: Redraw the chart



# Exporting sensor data

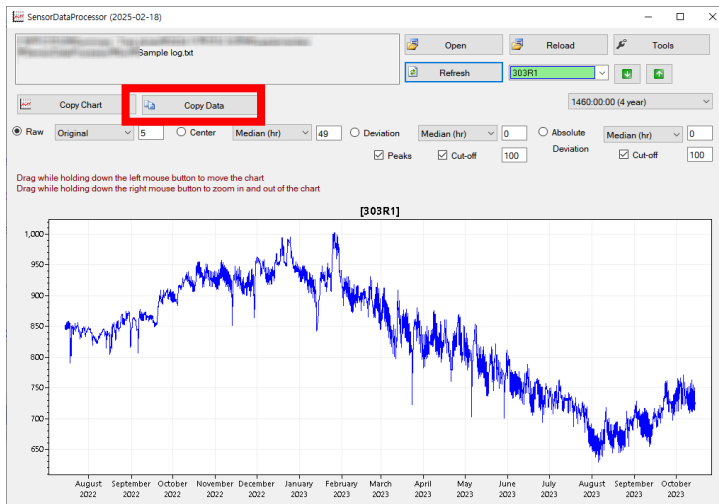
Copy Chart: The current chart is copied to the clipboard as an image.

Copy Data: The sensor data is copied to the clipboard as text.



# Exporting sensor data

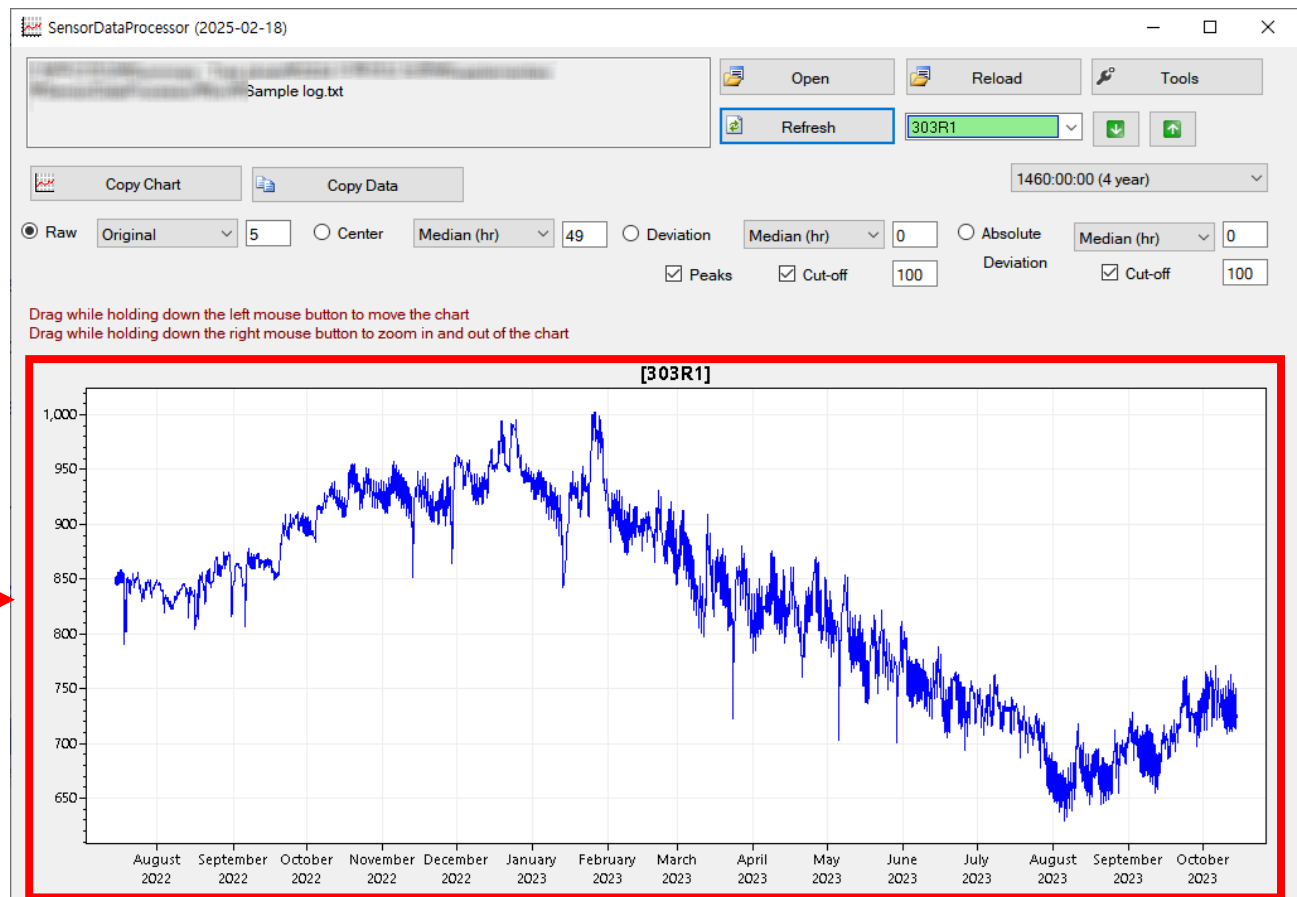
After selecting the 'Center' curve and clicking 'Copy data,' the line graph datasets displayed on the chart are copied to the clipboard. An example of pasting this data into Excel is shown in the right-hand figure.



	A	B	C	D	E	F
	[1] Date	[1] Time (day)	[1] Value	[2] Date	[2] Time (day)	[2] Value
1						
2	7/15/2022	0:27	12.01925	7/15/2022	0:27	847
3	7/15/2022	0:58	12.04079	7/15/2022	0:58	847.25
4	7/15/2022	1:29	12.06231	7/15/2022	1:29	847.5
5	7/15/2022	2:00	12.08385	7/15/2022	2:00	847.75
6	7/15/2022	2:31	12.10538	7/15/2022	2:31	848
7	7/15/2022	3:02	12.12692	7/15/2022	3:02	848
8	7/15/2022	3:33	12.14846	7/15/2022	3:33	848
9	7/15/2022	4:04	12.17	7/15/2022	4:04	848
10	7/15/2022	4:35	12.19154	7/15/2022	4:35	848
11	7/15/2022	5:06	12.21308	7/15/2022	5:06	848
12	7/15/2022	5:37	12.23462	7/15/2022	5:37	848
13	7/15/2022	6:08	12.25616	7/15/2022	6:08	848
14	7/15/2022	6:39	12.27771	7/15/2022	6:39	848
15	7/15/2022	7:10	12.29925	7/15/2022	7:10	848.25
16	7/15/2022	7:41	12.32079	7/15/2022	7:41	848.5
17	7/15/2022	8:12	12.34231	7/15/2022	8:12	848.75
18	7/15/2022	8:43	12.36384	7/15/2022	8:43	849
19	7/15/2022	9:14	12.38536	7/15/2022	9:14	849
20	7/15/2022	9:45	12.40687	7/15/2022	9:45	849
21	7/15/2022	10:16	12.42839	7/15/2022	10:16	849
22	7/15/2022	10:47	12.4499	7/15/2022	10:47	849
23	7/15/2022	11:18	12.47139	7/15/2022	11:18	849
24	7/15/2022	11:49	12.49289	7/15/2022	11:49	849
25	7/15/2022	12:20	12.51439	7/15/2022	12:20	849.5
26	7/15/2022	12:51	12.53589	7/15/2022	12:51	850
27	7/15/2022	13:22	12.5574	7/15/2022	13:22	849.5
28	7/15/2022	13:53	12.57889	7/15/2022	13:53	849
29	7/15/2022	14:24	12.60039	7/15/2022	14:24	849
30	7/15/2022	14:55	12.6219	7/15/2022	14:55	849
31	7/15/2022	15:26	12.6434	7/15/2022	15:26	849
32	7/15/2022	15:57	12.66491	7/15/2022	15:57	849

# Showing sensor chart

- Reload : Move the latest graph: Move the graph by left-clicking and dragging.
- Zoom in and out : Use the mouse wheel (scroll) to zoom in and out of the graph
- Scale graph: Right-click and drag to zoom in and out of the graph horizontally/vertically
- Zoom in on a specific time period: Click and hold the mouse wheel button and drag to select a specific time period to zoom in for a closer look Reload

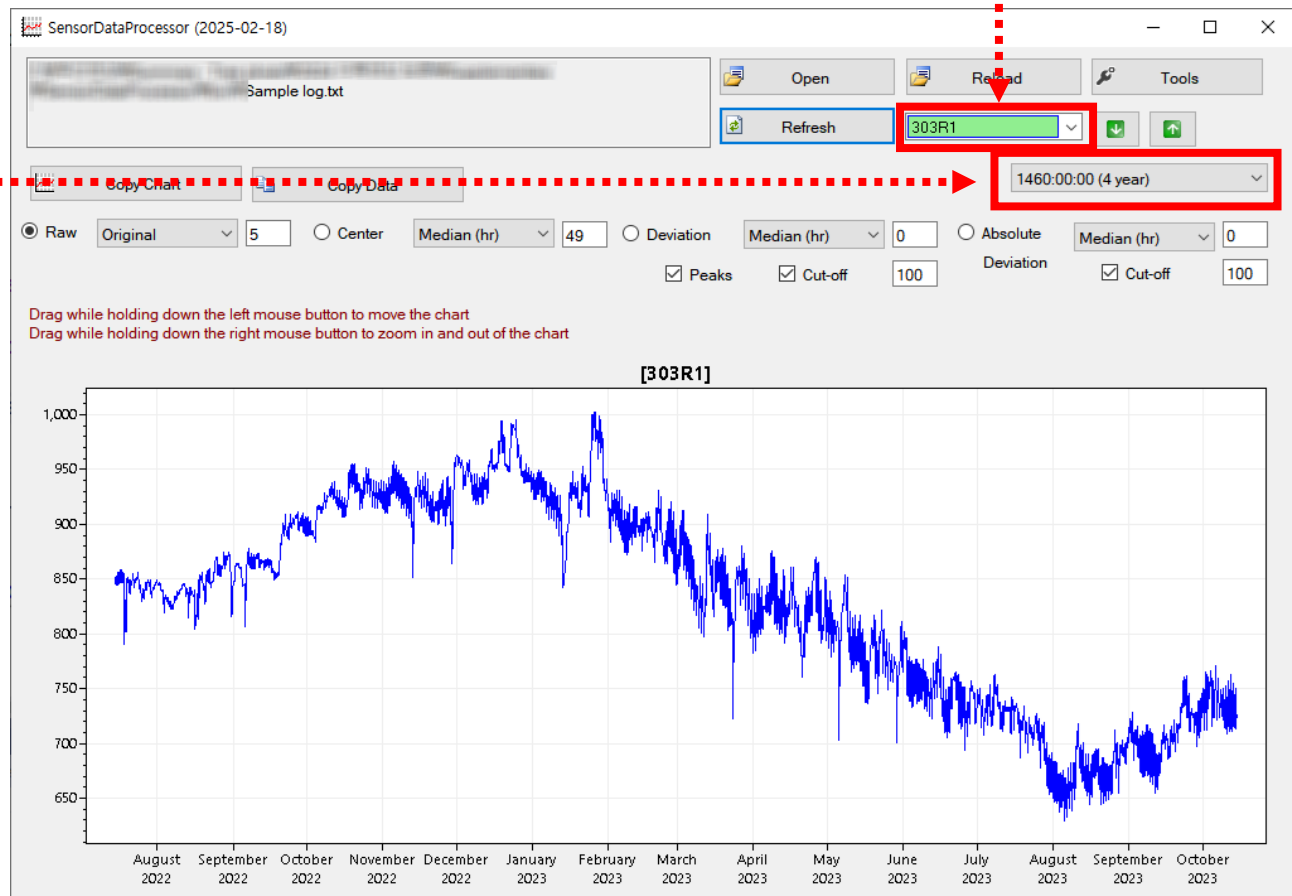




# Showing sensor chart

Select Sensor: Select the desired sensor number from the drop-down menu

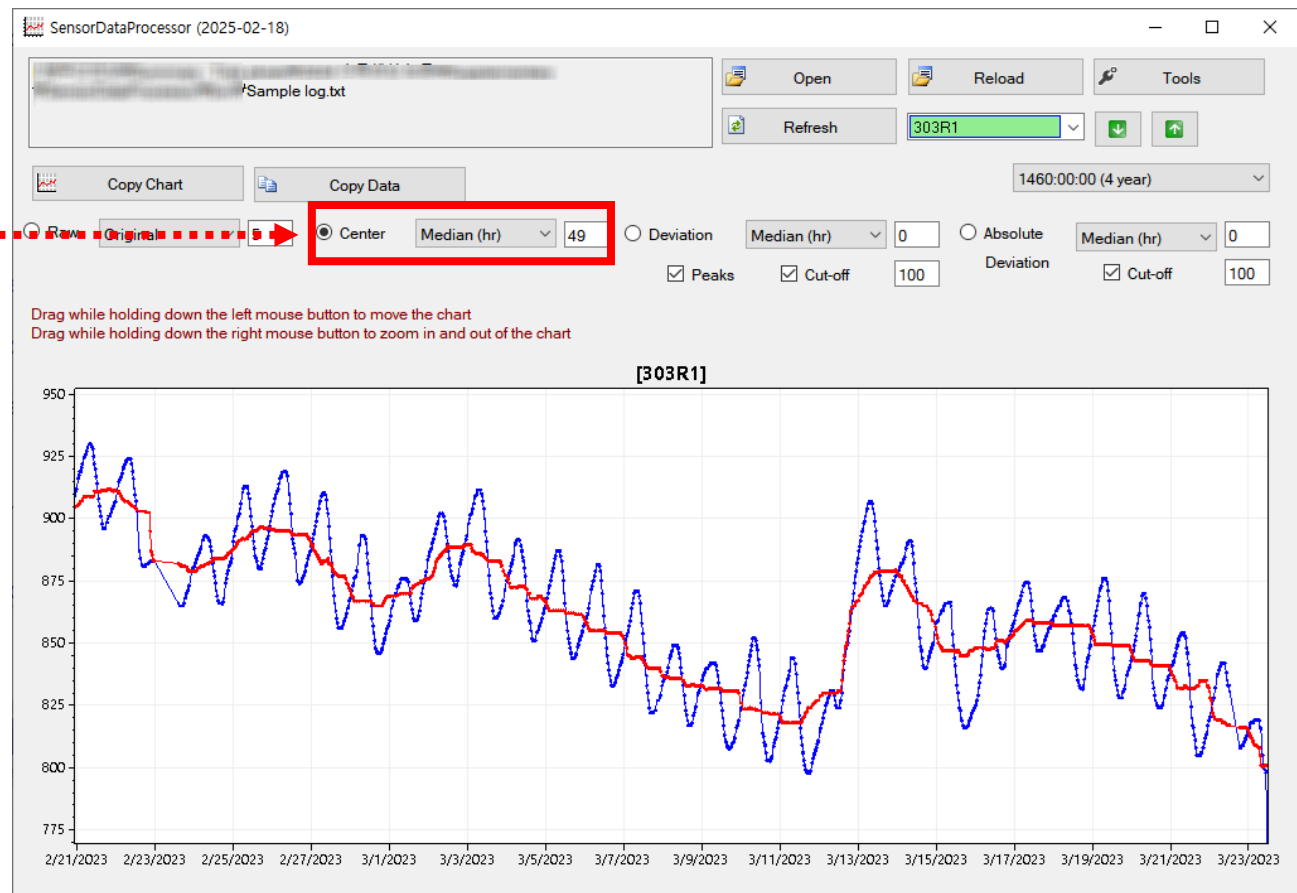
Set time period: Set the desired data retrieval period



# Showing center curve

Center: The graph additionally displays a center curve to indicate the trend of the median (hr or pt) of the sensor data.

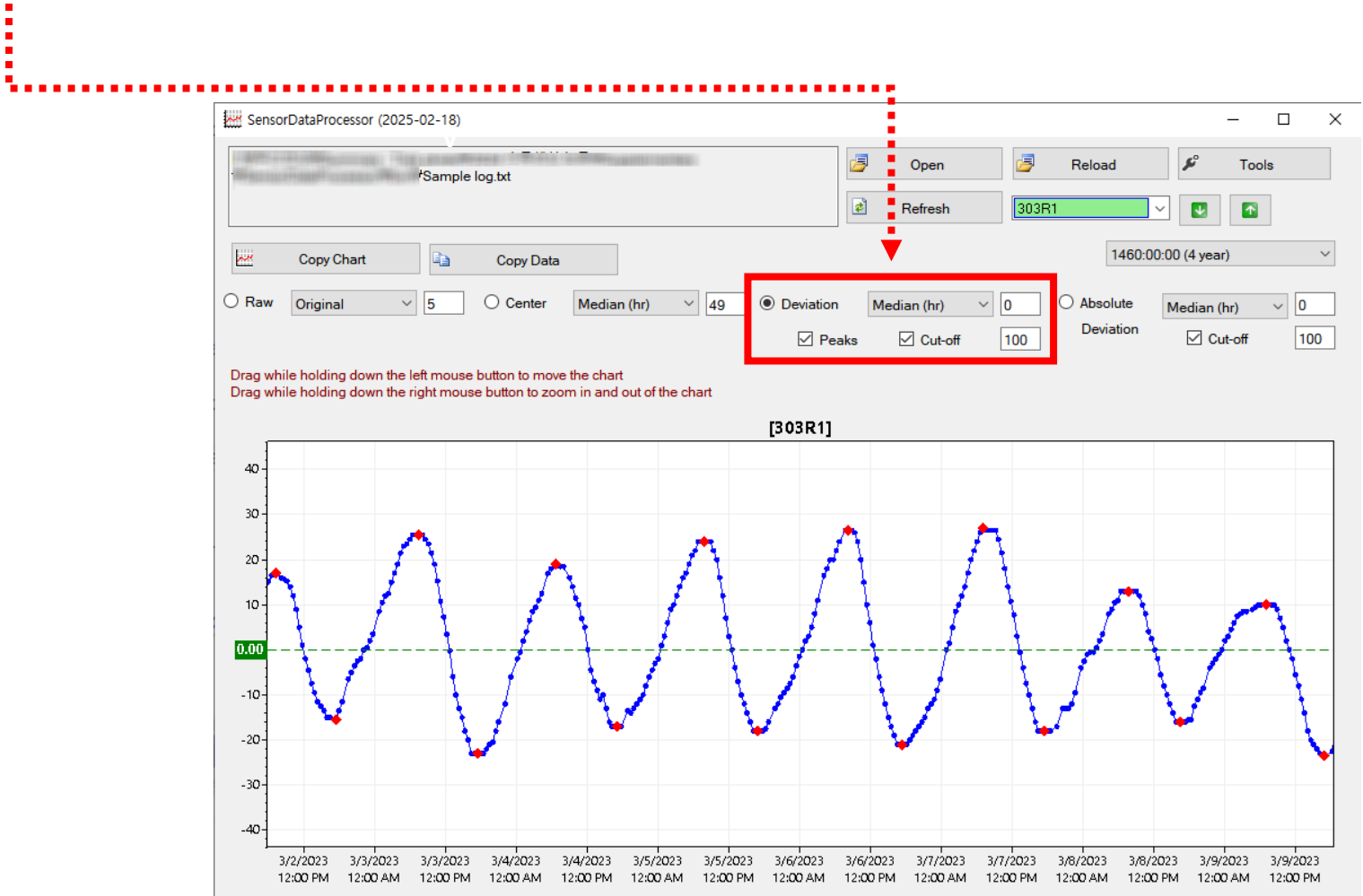
- o HR: Calculated as the median of the data for 49 hours before and after the current data (24 h before to 24 h after)
- o PT: Calculated as the median value of the 49 data before and after the current data (24 before to 24 after)



Generating the center curve takes some time, so please wait.

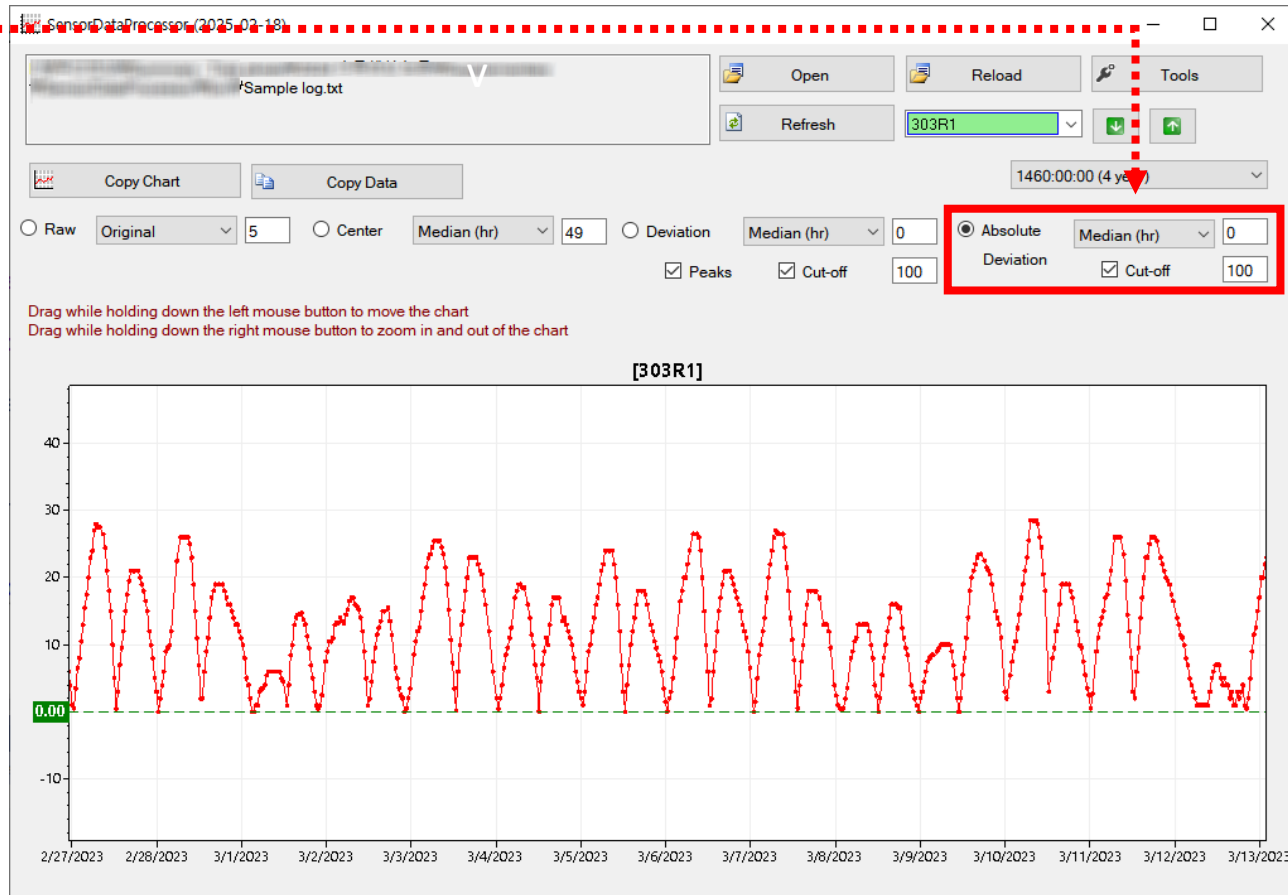
# Showing deviation chart

Deviation : Median filtered sensor data minus data from center curve



# Showing absolute deviation chart

Absolute deviation: the absolute value of the deviation data



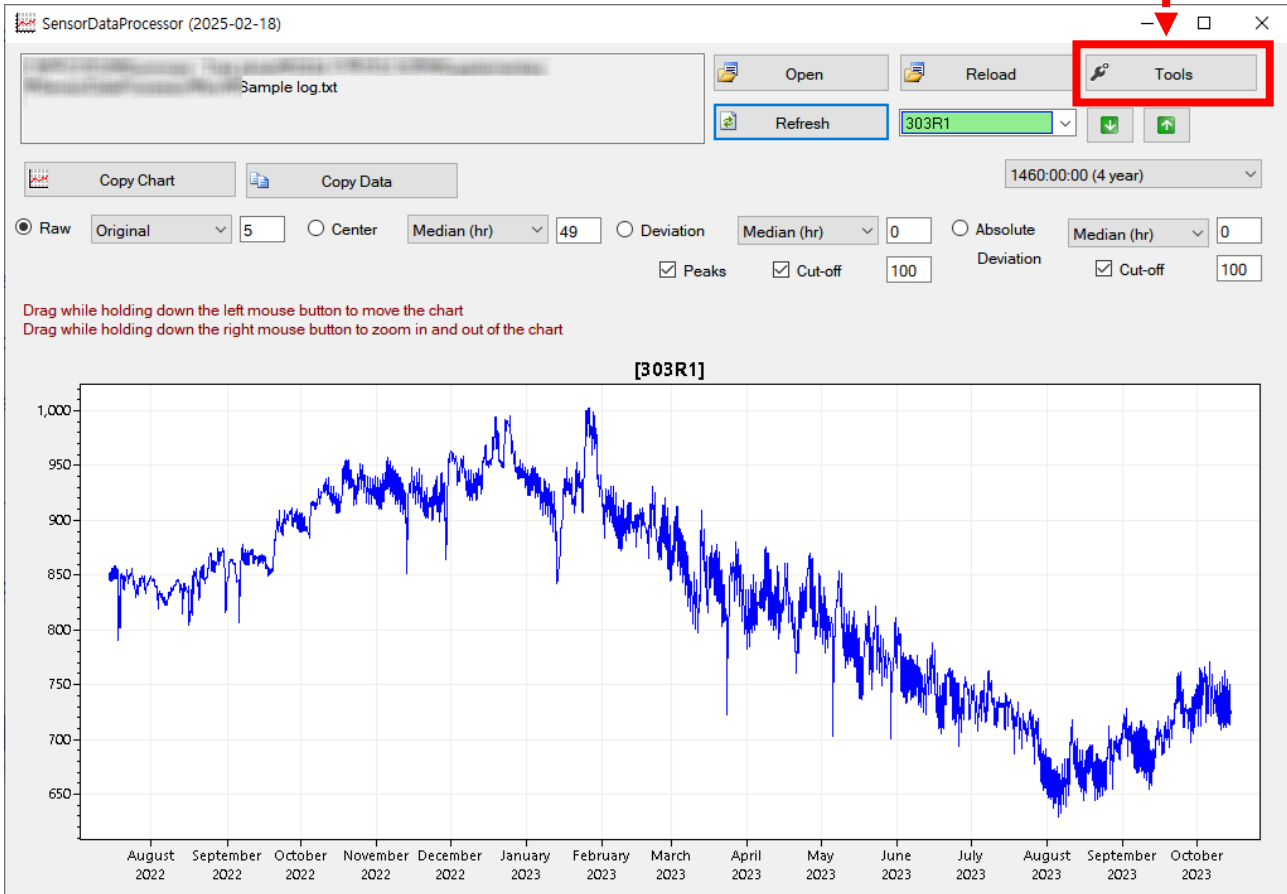


# Tools



# Selecting the 'Tools' menu

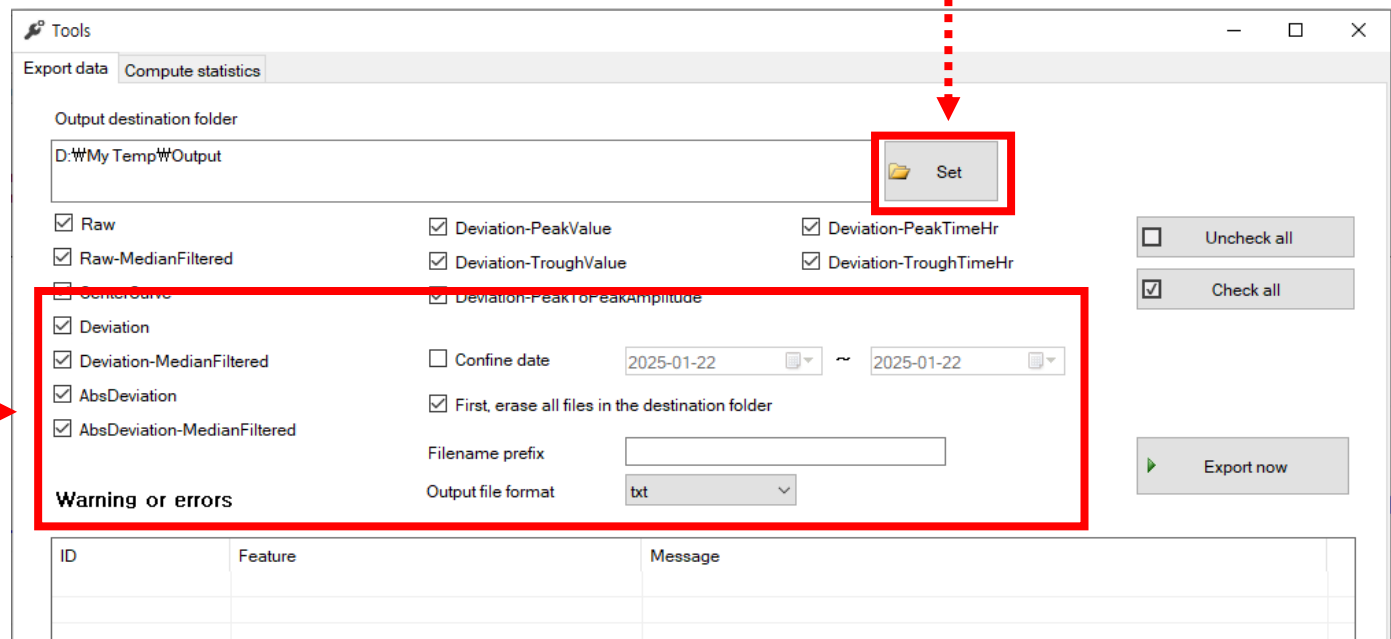
Click the 'Tools' button



# Exporting processed data

Step 1: Click the “Set” button to specify a folder to save the processed data

Step 2: Check the desired items in the provided list to select the data to be extracted

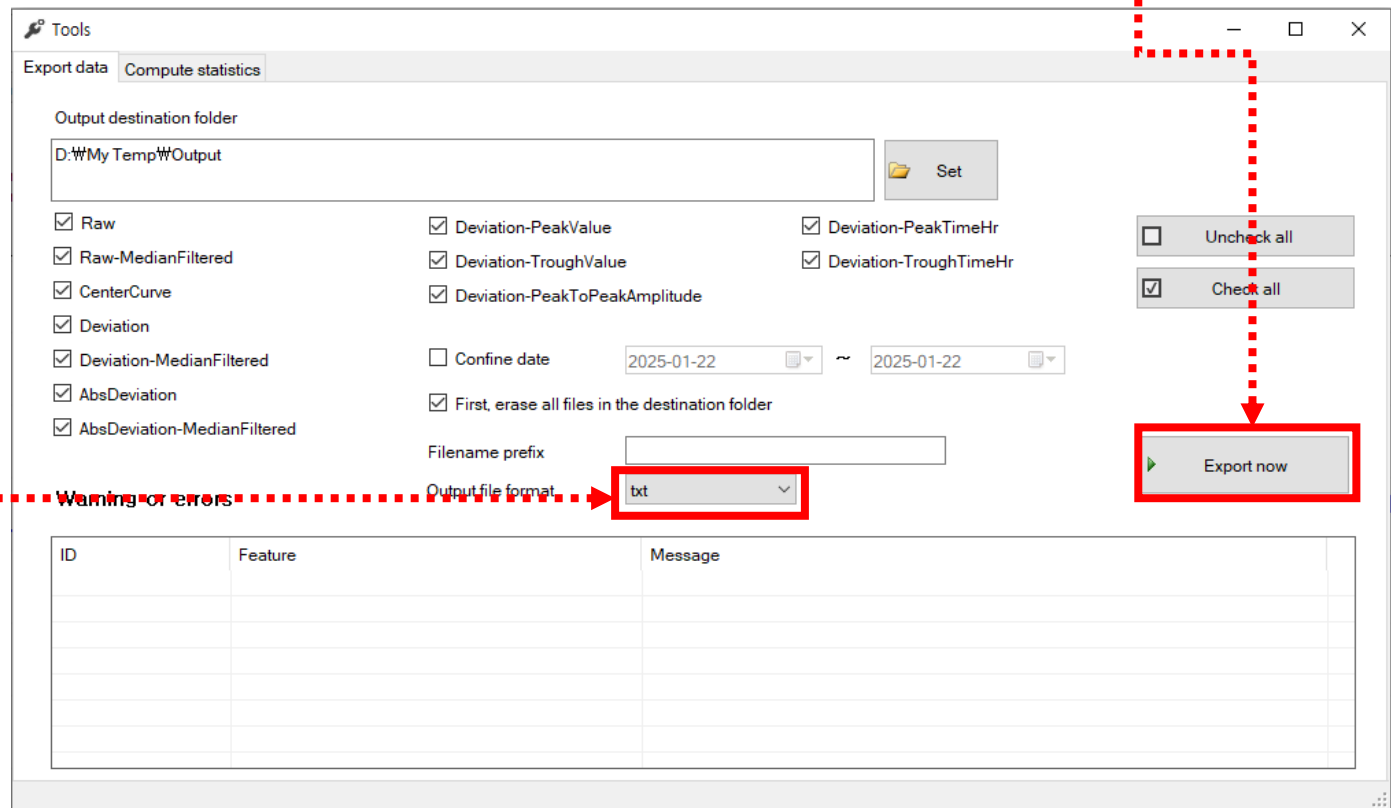


From the data in a single log file, the program calculates results such as raw data, median filtered data, center curve, deviation, absolute deviation curve, and peak time, trough time, etc., and saves them in files. This function generates various files for each sensor ID.

# Exporting processed data

Step 3: Select the file format you want to save (.txt, .csv)

Step 4: Once everything is set, click the “Export now” button to start extracting the data





# Computing statistics

Clear : Clear all data currently displayed in the list.

Delete : Click to select the file to delete and press the “Delete” button to remove it from the list.

Select folder : Select a new folder to import statistics data

The screenshot shows the 'Tools' window with the 'Compute statistics' tab active. The 'Clear', 'Delete', and 'Select folder' buttons are highlighted with red boxes. Red dashed arrows point from the text above to these buttons. Below the buttons is a table of files and a preview table.

File name	Size (byte)	Folder
303R1_AbsDeviation-MedianFi...	474,115	C:\Users\abcwy\Desktop...
303R1_AbsDeviation.txt	474,115	C:\Users\abcwy\Desktop...
303R1_CenterCurve.txt	504,313	C:\Users\abcwy\Desktop...
303R1_Deviation-MedianFilter...	483,304	C:\Users\abcwy\Desktop...
303R1_Deviation-PeakTimeHr...	11,133	C:\Users\abcwy\Desktop...
303R1_Deviation-PeakToPeak...	9,357	C:\Users\abcwy\Desktop...
303R1_Deviation-PeakValue.txt	10,064	C:\Users\abcwy\Desktop...
303R1_Deviation-TroughTime...	11,164	C:\Users\abcwy\Desktop...
303R1_Deviation-TroughValue...	10,213	C:\Users\abcwy\Desktop...
303R1_Deviation.txt	483,304	C:\Users\abcwy\Desktop...
303R1_Raw-MedianFiltered.txt	496,965	C:\Users\abcwy\Desktop...
303R1_Raw.txt	491,893	C:\Users\abcwy\Desktop...
304R1_AbsDeviation-MedianFi...	518,169	C:\Users\abcwy\Desktop...

	File name	Variable	Feature
1	File name	Variable	Feature
2	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
3	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
4	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
5	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
6	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
7	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
8	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
9	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
10	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
11	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
12	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
13	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi

# Computing statistics

Step 1: Make sure the data you extracted from “Export data” is loaded into the list correctly.

Step 2: You can set the analysis cycle, select Daily (calculate statistics on a daily basis) or Monthly (calculate statistics on a monthly basis)

Tools

Export data Compute statistics

Clear Delete Select folder Compute Save as Copy this table

Daily  Monthly

File name	Size (byte)	Folder
303R1_AbsDeviation-MedianFi...	474,115	C:\Users\abcwy\Desktop...
303R1_AbsDeviation.txt	474,115	C:\Users\abcwy\Desktop...
303R1_CenterCurve.txt	504,313	C:\Users\abcwy\Desktop...
303R1_Deviation-MedianFilter...	483,304	C:\Users\abcwy\Desktop...
303R1_Deviation-PeakTimeHr...	11,133	C:\Users\abcwy\Desktop...
303R1_Deviation-PeakToPeak...	9,357	C:\Users\abcwy\Desktop...
303R1_Deviation-PeakValue.txt	10,064	C:\Users\abcwy\Desktop...
303R1_Deviation-TroughTime...	11,164	C:\Users\abcwy\Desktop...
303R1_Deviation-TroughValue...	10,213	C:\Users\abcwy\Desktop...
303R1_Deviation.txt	483,304	C:\Users\abcwy\Desktop...
303R1_Raw-MedianFiltered.txt	496,965	C:\Users\abcwy\Desktop...
303R1_Raw.txt	491,893	C:\Users\abcwy\Desktop...
304R1_AbsDeviation-MedianFi...	518,169	C:\Users\abcwy\Desktop...
304R1_AbsDeviation.txt	518,169	C:\Users\abcwy\Desktop...
304R1_CenterCurve.txt	548,316	C:\Users\abcwy\Desktop...
304R1_Deviation-MedianFilter...	528,450	C:\Users\abcwy\Desktop...
304R1_Deviation-PeakTimeHr...	11,624	C:\Users\abcwy\Desktop...
304R1_Deviation-PeakToPeak...	10,273	C:\Users\abcwy\Desktop...
304R1_Deviation-PeakValue.txt	10,572	C:\Users\abcwy\Desktop...

	File name	Variable	Fea
1	File name	Variable	Feature
2	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
3	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
4	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
5	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
6	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
7	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
8	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
9	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
10	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
11	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
12	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
13	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
14	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
15	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
16	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
17	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
18			

Computing stats completed!

# Computing statistics

If the user selects the 'Daily' option, they can choose the 'Time window averaging' option. 'Time window averaging' calculates the average value from the entire dataset over the number of days specified by the user. For example, if '7 days' is selected, the average is calculated using sensing data from a total of seven days: the three days before, the current day, and the three days after the selected date. Additionally, if 'Analyze everyday' is checked, this calculation is performed daily. If it is not checked, the calculation is performed by skipping the specified period before moving on to the next date. If the user wants to divide the entire dataset into 7-day intervals and calculate the average values for each 7-day period, they should select '7 days' and leave 'Analyze everyday' unchecked.

The screenshot shows a software interface for computing statistics. The 'Tools' window has two tabs: 'Export data' and 'Compute statistics'. The 'Compute statistics' tab is active, showing a toolbar with buttons for 'Clear', 'Delete', 'Select folder', 'Compute', 'Save as', and 'Copy this table'. Below the toolbar, there are radio buttons for 'Daily' (selected), 'Monthly', and a checked checkbox for 'Time window averaging'. A dropdown menu shows '7 days', and an unchecked checkbox for 'Analyze everyday' is also present. The interface displays two tables: a file list on the left and a data table on the right.

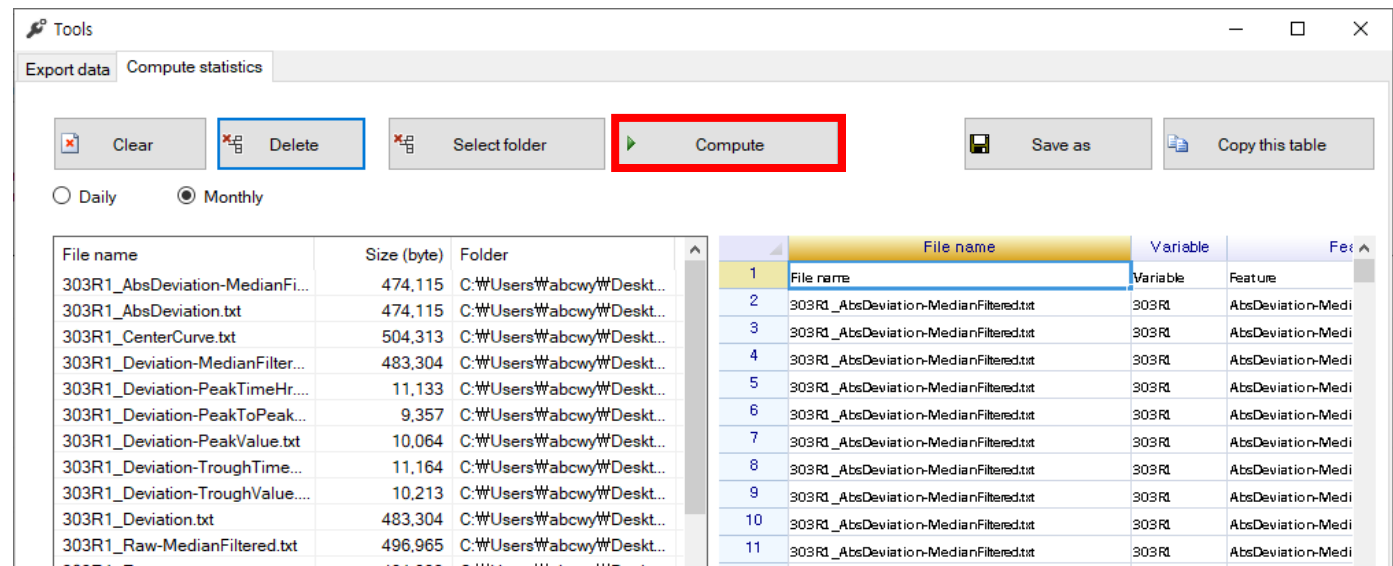
File name	Size (byte)	Folder
303R1_AbsDeviation-MedianFi...	474,115	F:\Temp\Wtest
303R1_AbsDeviation.txt	474,115	F:\Temp\Wtest
303R1_CenterCurve.txt	504,313	F:\Temp\Wtest
303R1_Deviation-MedianFilter...	483,304	F:\Temp\Wtest
303R1_Deviation-PeakTimeHr...	11,133	F:\Temp\Wtest
303R1_Deviation-PeakToPeak...	9,357	F:\Temp\Wtest
303R1_Deviation-PeakValue.txt	10,064	F:\Temp\Wtest
303R1_Deviation-TroughTime...	11,164	F:\Temp\Wtest
303R1_Deviation-TroughValue...	10,213	F:\Temp\Wtest
303R1_Deviation.txt	483,304	F:\Temp\Wtest
303R1_Raw-MedianFiltered.txt	496,965	F:\Temp\Wtest
303R1_Raw.txt	491,893	F:\Temp\Wtest
304R1_AbsDeviation-MedianFi...	518,169	F:\Temp\Wtest
304R1_AbsDeviation.txt	518,169	F:\Temp\Wtest

	File name	Variable	Feature
1	File name	Variable	Feature
2	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-A
3	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-A
4	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-A
5	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-A
6	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-A
7	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-A
8	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-A
9	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-A
10	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-A
11	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-A
12	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-A
13	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-A
..			

# Computing statistics

Step 3: Click the 'Compute' button to process the data

This program calculates the mean, standard deviation, min, max, percentiles Q1, Q2, Q3, skewness, kurtosis, coefficient of variation (CV), and root mean square (RMS).



The screenshot shows a software window titled 'Tools' with a 'Compute statistics' tab. The 'Compute' button is highlighted with a red box. Below the buttons are radio buttons for 'Daily' and 'Monthly' (selected). Below that are two tables.

File name	Size (byte)	Folder
303R1_AbsDeviation-MedianFi...	474,115	C:\Users\wabcwy\Desktop...
303R1_AbsDeviation.txt	474,115	C:\Users\wabcwy\Desktop...
303R1_CenterCurve.txt	504,313	C:\Users\wabcwy\Desktop...
303R1_Deviation-MedianFilter...	483,304	C:\Users\wabcwy\Desktop...
303R1_Deviation-PeakTimeHr...	11,133	C:\Users\wabcwy\Desktop...
303R1_Deviation-PeakToPeak...	9,357	C:\Users\wabcwy\Desktop...
303R1_Deviation-PeakValue.txt	10,064	C:\Users\wabcwy\Desktop...
303R1_Deviation-TroughTime...	11,164	C:\Users\wabcwy\Desktop...
303R1_Deviation-TroughValue...	10,213	C:\Users\wabcwy\Desktop...
303R1_Deviation.txt	483,304	C:\Users\wabcwy\Desktop...
303R1_Raw-MedianFiltered.txt	496,965	C:\Users\wabcwy\Desktop...

	File name	Variable	Feature
1	File name		Feature
2	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
3	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
4	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
5	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
6	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
7	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
8	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
9	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
10	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
11	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi

# Computing statistics

Step 4: You can see the result of calculating the statistic values

Step 5: Click 'Save' as button to save the data in CSV or TXT format

or 'Copy' this table button to copy the data in the current table to the clipboard

Tools

Export data Compute statistics

Clear Delete Select folder Compute

Save as Copy this table

Daily  Monthly

File name	Size (byte)	Folder
303R1_AbsDeviation-MedianFi...	474,115	C:\Users\abcwy\Desktop...
303R1_AbsDeviation.txt	474,115	C:\Users\abcwy\Desktop...
303R1_CenterCurve.txt	504,313	C:\Users\abcwy\Desktop...
303R1_Deviation-MedianFilter...	483,304	C:\Users\abcwy\Desktop...
303R1_Deviation-PeakTimeHr...	11,133	C:\Users\abcwy\Desktop...
303R1_Deviation-PeakToPeak...	9,357	C:\Users\abcwy\Desktop...
303R1_Deviation-PeakValue.txt	10,064	C:\Users\abcwy\Desktop...
303R1_Deviation-TroughTime...	11,164	C:\Users\abcwy\Desktop...
303R1_Deviation-TroughValue...	10,213	C:\Users\abcwy\Desktop...
303R1_Deviation.txt	483,304	C:\Users\abcwy\Desktop...
303R1_Raw-MedianFiltered.txt	496,985	C:\Users\abcwy\Desktop...
303R1_Raw.txt	491,893	C:\Users\abcwy\Desktop...
304R1_AbsDeviation-MedianFi...	518,169	C:\Users\abcwy\Desktop...
304R1_AbsDeviation.txt	518,169	C:\Users\abcwy\Desktop...
304R1_CenterCurve.txt	548,316	C:\Users\abcwy\Desktop...
304R1_Deviation-MedianFilter...	528,450	C:\Users\abcwy\Desktop...
304R1_Deviation-PeakTimeHr...	11,624	C:\Users\abcwy\Desktop...
304R1_Deviation-PeakToPeak...	10,273	C:\Users\abcwy\Desktop...
304R1_Deviation-PeakValue.txt	10,572	C:\Users\abcwy\Desktop...

	File name	Variable	Feature
1	File name	Variable	Feature
2	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
3	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
4	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
5	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
6	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
7	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
8	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
9	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
10	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
11	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
12	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
13	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
14	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
15	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
16	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
17	303R1_AbsDeviation-MedianFiltered.txt	303R1	AbsDeviation-Medi
18			

Computing stats completed!

# Computing statistics

An example of calculations performed in weekly intervals is shown below.

Tools

Export data Compute statistics

Clear Delete Select folder Compute Save as Copy this table

Daily
  Monthly
  Time window averaging
 7 days
  Analyse everyday

File name	Size (byte)	Folder	File name	Variable	Feature	Year	Month	Day	n	Mean	Stdev	Min	Max	PercentO1	PercentO2	PercentO3	Skewness	Kurtosis	Sum	CV	RMS	
303R1_AbsDeviation-MedianFi...	474,115	F:\Temp\Wtest	1	File name	Variable	Feature	Year	Month	Day	n	Mean	Stdev	Min	Max	PercentO1	PercentO2	PercentO3	Skewness	Kurtosis	Sum	CV	RMS
303R1_AbsDeviation.bt	474,115	F:\Temp\Wtest	2	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	7	15	42	4.73803	3.72976	0	12.428	1.737975	3.625	8.25	0.1923	-1.01998	205.438	0.72889	6.2812
303R1_CenterCurve.bt	504,313	F:\Temp\Wtest	3	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	7	22	38	3.85939	3.03952	0.006	9.796	1.63643	3.16071	5.21429	0.49632	-0.3327	166.107	0.74133	4.3965
303R1_Deviation-MedianFilter...	483,304	F:\Temp\Wtest	4	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	7	29	38	2.23839	1.44892	0	5.357	1	2	3.57143	0.9822	-0.31928	93.296	0.65943	2.7967
303R1_Deviation-PeakTimeHr...	11,133	F:\Temp\Wtest	5	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	8	5	41	1.94746	1.38099	0.071	4.407	0.78571	1.85754	2.71429	0.1282	-0.67964	79.179	0.66989	2.403
303R1_Deviation-PeakToPeak...	9,357	F:\Temp\Wtest	6	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	8	12	44	2.5071	1.76665	0.071	5.369	1.00869	2.57143	4.11807	0.41771	-0.12789	109.75	0.59401	3.0684
303R1_Deviation-TroughTime...	10,064	F:\Temp\Wtest	7	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	8	19	45	4.58795	3.58862	0	11.5	1.82343	3.98254	7.20558	0.57895	-0.55916	202.036	0.79317	5.8367
303R1_Deviation-TroughValue...	11,164	F:\Temp\Wtest	8	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	8	26	45	3.62057	2.71059	0.071	7.714	2.20536	3.48643	4.91071	0.48307	-0.35442	156.357	0.76674	4.2891
303R1_Deviation.bt	483,304	F:\Temp\Wtest	9	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	9	2	43	2.39903	2.73439	0	8.571	0.14286	1.67857	3.85714	1.03908	1.96307	107.179	1.20837	3.6337
303R1_Raw-MedianFiltered.bt	496,965	F:\Temp\Wtest	10	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	9	9	42	3.99444	2.63279	0	9.25	2.08929	3.71429	5.19643	0.1328	-0.43442	179.036	0.74529	4.9146
303R1_Raw.bt	491,893	F:\Temp\Wtest	11	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	9	16	43	2.13806	1.26705	0	4.286	1.42857	2.92433	3.325	-0.09711	-0.8194	95.679	0.5975	2.5389
304R1_AbsDeviation-MedianFi...	516,169	F:\Temp\Wtest	12	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	9	23	44	3.82339	2.26433	0.214	7.75	2.05937	3.6074	5.44643	0.24333	-0.52597	156.579	0.64233	4.4371
304R1_AbsDeviation.bt	518,169	F:\Temp\Wtest	13	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	9	30	45	4.36236	2.53022	0.399	8.571	2.5	4.14286	6.46429	0.17287	-0.97088	189.822	0.60233	5.0496
304R1_CenterCurve.bt	546,316	F:\Temp\Wtest	14	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	10	7	42	2.50285	1.98939	0	5.429	1.95714	2.5	3.95714	0.3206	-0.04529	112.643	0.79843	3.0077
304R1_Deviation-MedianFilter...	528,450	F:\Temp\Wtest	15	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	10	14	40	4.93939	2.70528	0.071	9.464	3.02679	5.17857	6.86607	-0.16039	-0.93223	215.036	0.5984	5.6174
304R1_Deviation-PeakTimeHr...	11,624	F:\Temp\Wtest	16	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	10	21	42	6.10754	3.67106	0.143	12.143	3.23664	6.26786	8.625	0.08543	-0.95294	269.179	0.61642	7.1243
304R1_Deviation-PeakToPeak...	10,273	F:\Temp\Wtest	17	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	10	28	45	6.98022	3.63969	0.357	12.464	4.11607	7.10714	10.03957	-1.32716	-1.04306	314.479	0.53598	7.8873
304R1_Deviation-PeakValue.bt	10,273	F:\Temp\Wtest	18	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	11	4	44	7.39913	4.12891	0.179	13.607	4.57143	8.64286	11.5	-0.31026	-1.11954	344.75	0.52572	8.9706
304R1_Deviation-TroughTime...	12,752	F:\Temp\Wtest	19	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	11	11	46	8.99616	6.23773	0.107	19.607	4.21429	7.67857	14.11664	0.9106	-0.76657	397.036	0.62277	11.1288
304R1_Deviation-TroughValue...	11,604	F:\Temp\Wtest	20	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	11	18	40	8.62008	4.30701	0.143	15.369	5.52679	9.14286	11.48214	-0.19746	-0.76657	370.464	0.50943	9.6339
304R1_Deviation.bt	528,450	F:\Temp\Wtest	21	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	11	25	39	7.40625	4.64119	0.786	17.179	4.63389	6.85714	11.01786	0.41267	-0.6766	527.857	0.59934	9.1494
304R1_Raw-MedianFiltered.bt	538,793	F:\Temp\Wtest	22	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	12	2	43	6.84765	4.2308	0.143	12.571	2.03571	8.64286	10.25	-0.04635	-1.00366	238.571	0.63236	8.0849
304R1_Raw.bt	532,621	F:\Temp\Wtest	23	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	12	9	42	6.63655	3.89486	0.357	13.399	3.58036	6.44643	9.3125	0.2436	-0.84013	219.321	0.60031	7.6664
305R1_AbsDeviation-MedianFi...	459,693	F:\Temp\Wtest	24	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	12	16	45	4.99311	3.1139	0.143	10.399	2.48214	4.14286	7.44643	0.29819	-0.98103	215.571	0.67744	5.8936
305R1_AbsDeviation.bt	459,693	F:\Temp\Wtest	25	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	12	23	46	5.03935	3.88995	0.217	11.25	2.11489	3.625	8.33333	0.30026	-1.13874	219.417	0.72936	6.2432
305R1_CenterCurve.bt	491,780	F:\Temp\Wtest	26	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2022	12	30	42	3.88779	3.32034	0.107	10.286	1.48214	3.03571	5.83936	0.5678	-0.62365	155.929	0.84839	5.0975
305R1_Deviation-MedianFilter...	468,607	F:\Temp\Wtest	27	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2023	1	6	40	7.40625	4.12067	0.399	13.964	3.83929	7.82143	10.64286	-0.02886	-1.11482	317.607	0.57121	8.4792
305R1_Deviation-PeakTimeHr...	11,132	F:\Temp\Wtest	28	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2023	1	13	42	7.15231	4.44009	0.107	14.679	3.75	6.92857	10.6071	0.29888	-0.12372	314.603	0.78934	8.4194
305R1_Deviation-PeakToPeak...	9,101	F:\Temp\Wtest	29	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2023	1	20	41	6.17881	4.92489	0.25	15.25	2.25	4.46429	9.96429	0.61007	-0.84003	267.899	0.80006	7.8923
305R1_Deviation-PeakValue.bt	9,966	F:\Temp\Wtest	30	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2023	1	27	44	7.09747	5.5646	0.214	17.571	2.76786	5.42857	11.0836	0.52007	-0.63417	300.25	0.84011	9.0196
305R1_Deviation-TroughTime...	9,955	F:\Temp\Wtest	31	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2023	2	3	44	9.43939	5.9321	0.214	19.643	4.83929	8.46429	13.60714	0.17932	-0.73984	410.321	0.6637	11.2477
305R1_Deviation-TroughValue...	468,607	F:\Temp\Wtest	32	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2023	2	10	42	7.7837	4.93778	0.107	16.321	3.94643	6.71429	11.48214	0.41705	-0.73984	333.107	0.69313	9.2341
305R1_Deviation.bt	484,300	F:\Temp\Wtest	33	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2023	2	17	40	6.86277	4.62236	0.143	14.363	2.96429	6.21429	10.64286	0.2414	-1.09098	235.822	0.72149	8.3316
305R1_Raw-MedianFiltered.bt	478,713	F:\Temp\Wtest	34	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2023	2	24	42	12.15899	6.39762	0.571	21.607	7.10714	12.75	16.86007	-0.16414	-0.97555	474.143	0.5308	13.7028
305R1_Raw.bt	478,713	F:\Temp\Wtest	35	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2023	3	3	41	12.36409	6.29895	0.086	21.821	7.53786	12.96429	17.0828	-0.20709	-0.84022	534.107	0.52323	13.8513
			36	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2023	3	10	42	12.69	7.16324	0.5	24.286	7.39929	12.33936	18.125	0.08119	-0.83987	549.393	0.59894	14.5746
			37	303R1_AbsDeviation-MedianFiltered	303R1	AbsDeviation-MedianFiltered	2023	3	17	45	13.10963	6.96342	0.714	24.5	7.94643	13.5	18.01786	-0.02278	-0.87967	570.036	0.54946	14.8936

Computing stats completed

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