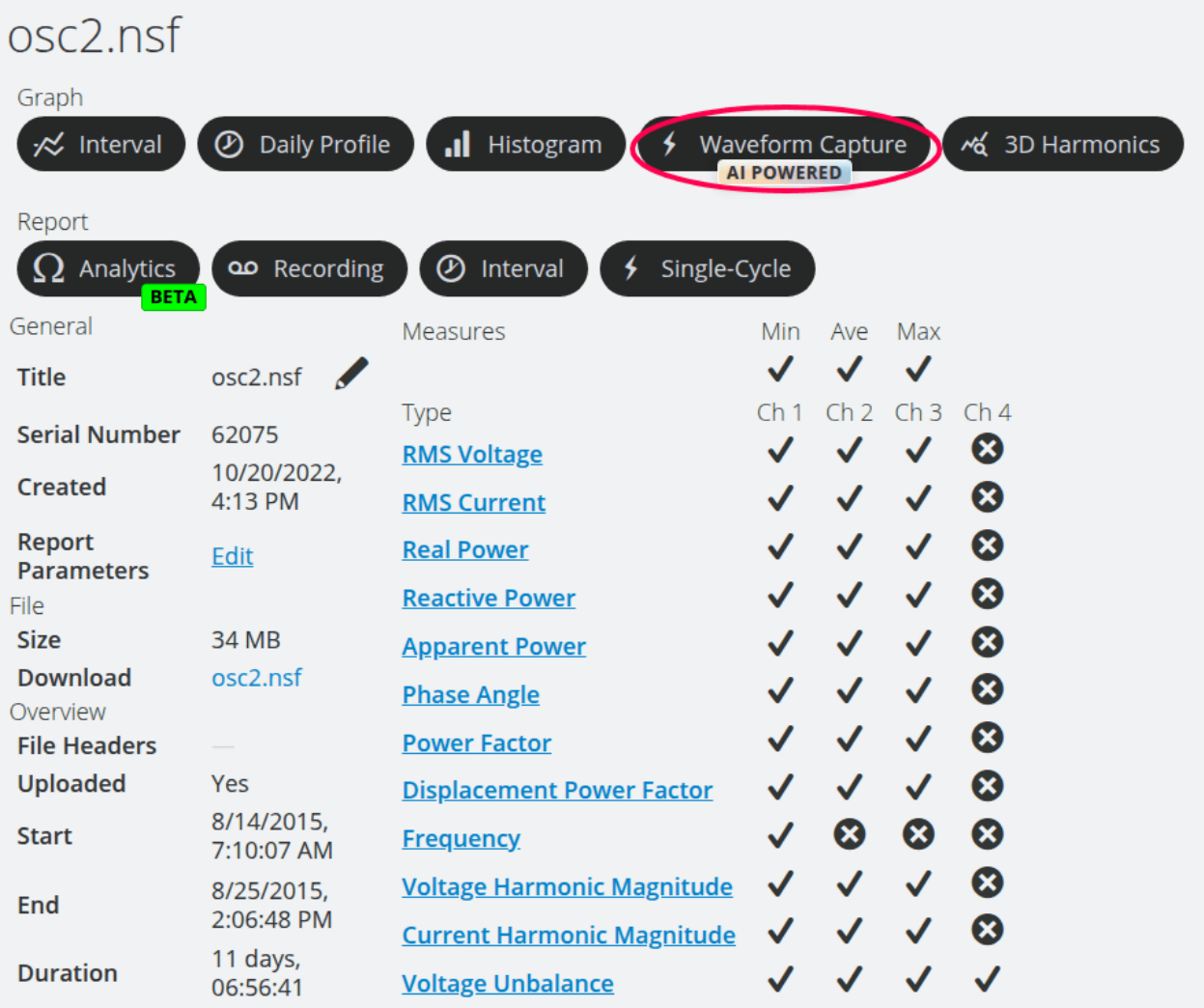
QUICK START GUIDE

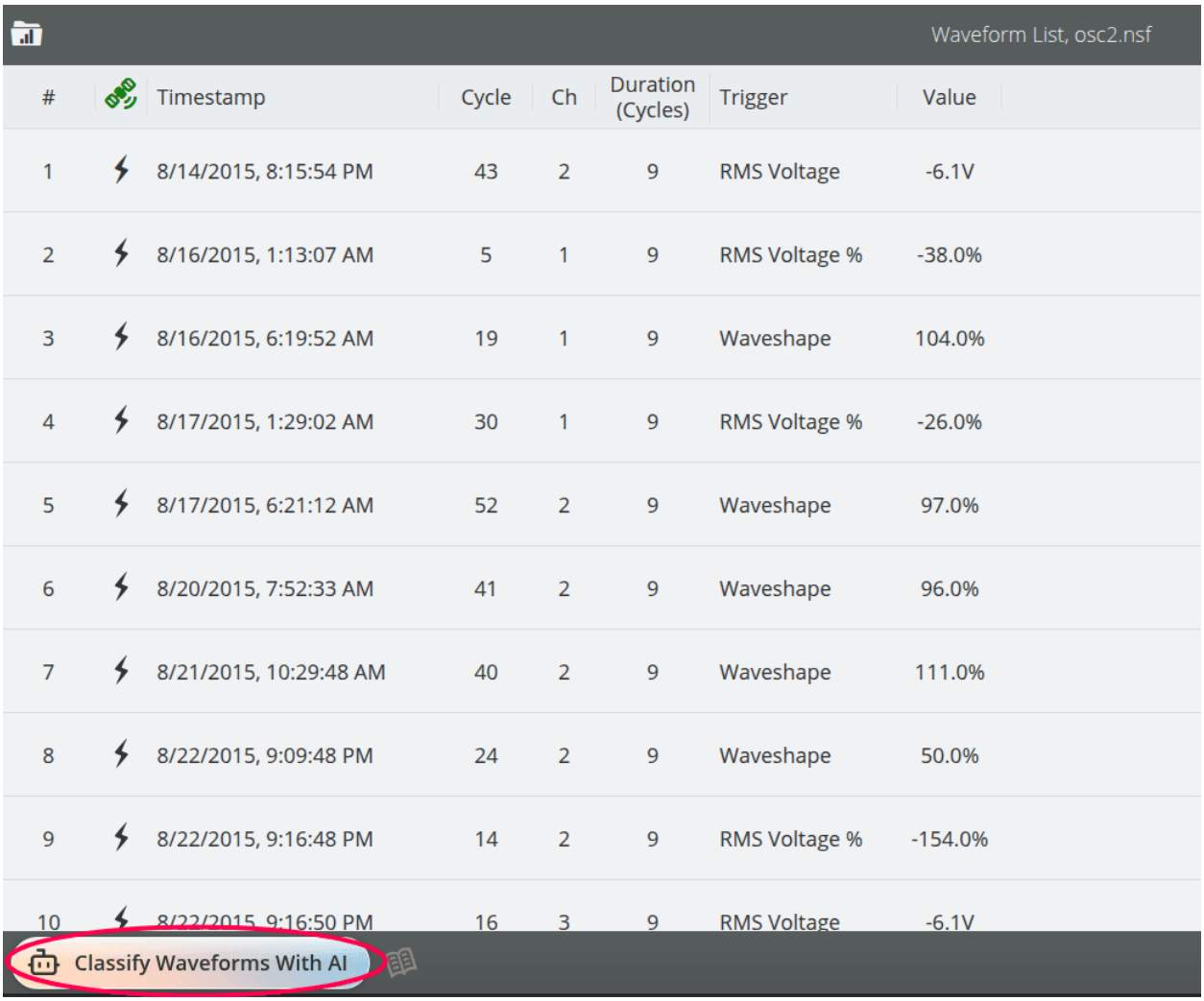
PQ Canvass AI-powered features.

Waveform Classifier*

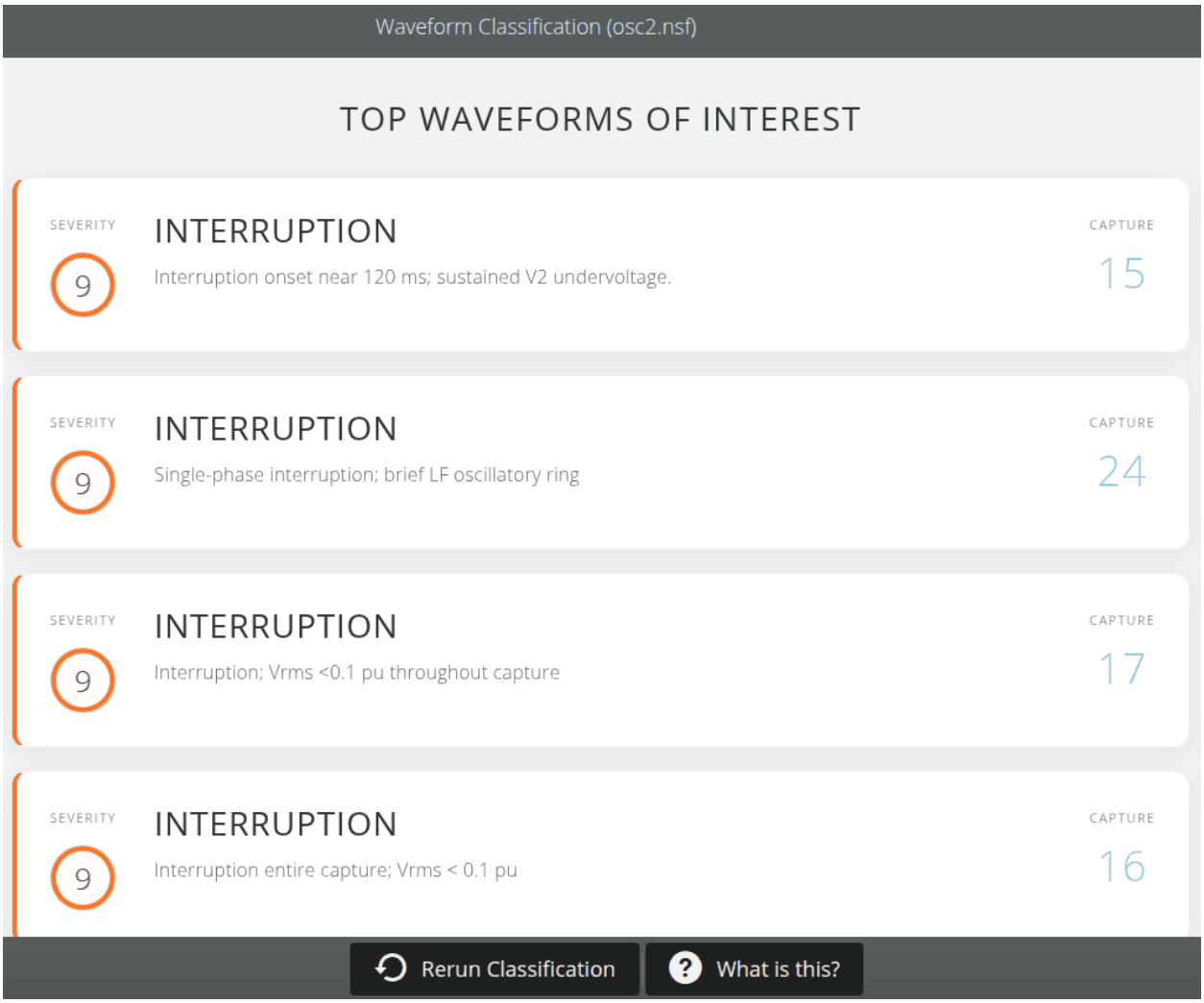
The Waveform Classifier is available for use on uploaded recordings. First, open an uploaded recording. Click the "Waveform Capture" button in the top section to open the waveform list.



On the waveform list, click the "Classify Waveforms With AI" button.



If the recording has never had the Waveform Classifier tool run on it, it will begin to run. A loading screen will appear, showing information about the progress, it will take a minute or two. You can click away from the loading screen to perform other tasks in PQ Canvass while the Classifier runs, it will continue in the background. If the recording has had a classification run already, you will be taken straight to the results page (with the option to run again at the bottom).



On the results page, the Waveforms will be sorted by severity, with the most severe at the top. Click on a waveform to expand for more information. This will include a brief analysis of the waveform, as well as a preview of the waveform with Voltage on top, Current below. If you click on the waveform preview, PQ Canvass will open the full waveform for more detailed analysis.

SEVERITY

9

INTERRUPTION

Interruption onset near 120 ms; sustained V2 undervoltage.

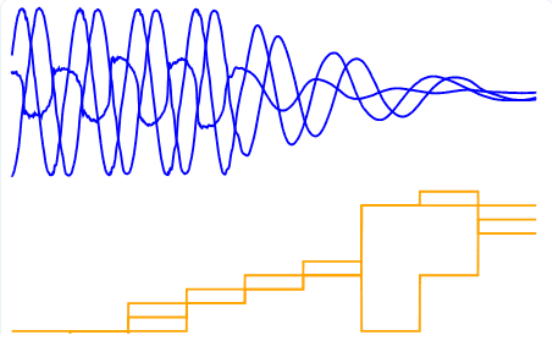
CAPTURE

15

Voltages decay into a momentary interruption at the record end: V2 drops <0.1 pu from ~120–140 ms and remains near-zero; V1/V3 fall to ~0.11–0.13 pu and persist to end, indicating the outage likely continued beyond the capture (IEEE 1159 §4.4.2.3). Prior to loss, V1/V3 experienced deep sags (~50–70 ms decaying), while V2 was already severe undervoltage across the capture (IEEE 1159 §4.4.2.2). Severity set by the interruption; the preceding sag is deep enough to likely exceed SEMI F47. Upstream source opened (utility feeder or protective device), causing a collapsing supply with motor back-EMF decay and a resulting interruption.

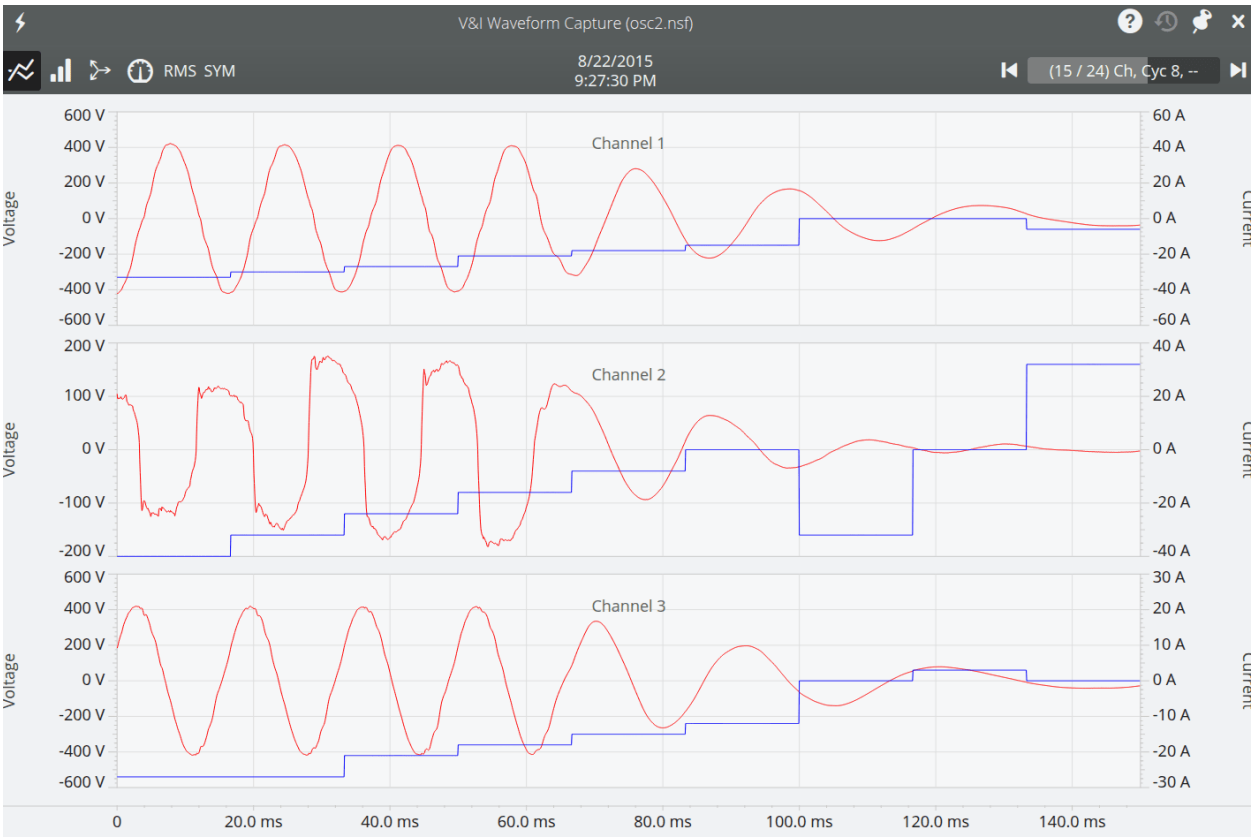
DEBUG REASONING

- RMS check: V2 <0.1 pu ≥1 cycle
- Baseline V1/V3 ≈297 V; decay to ~30–35 V
- V2 first/last rms: 100.8 V → 3.5 V
- Interruption persists to end; likely ongoing
- Sag metric 4.4 ms conflicts with visual long sag
- Severity set to 9 for interruption



CAPTURE DETAILS

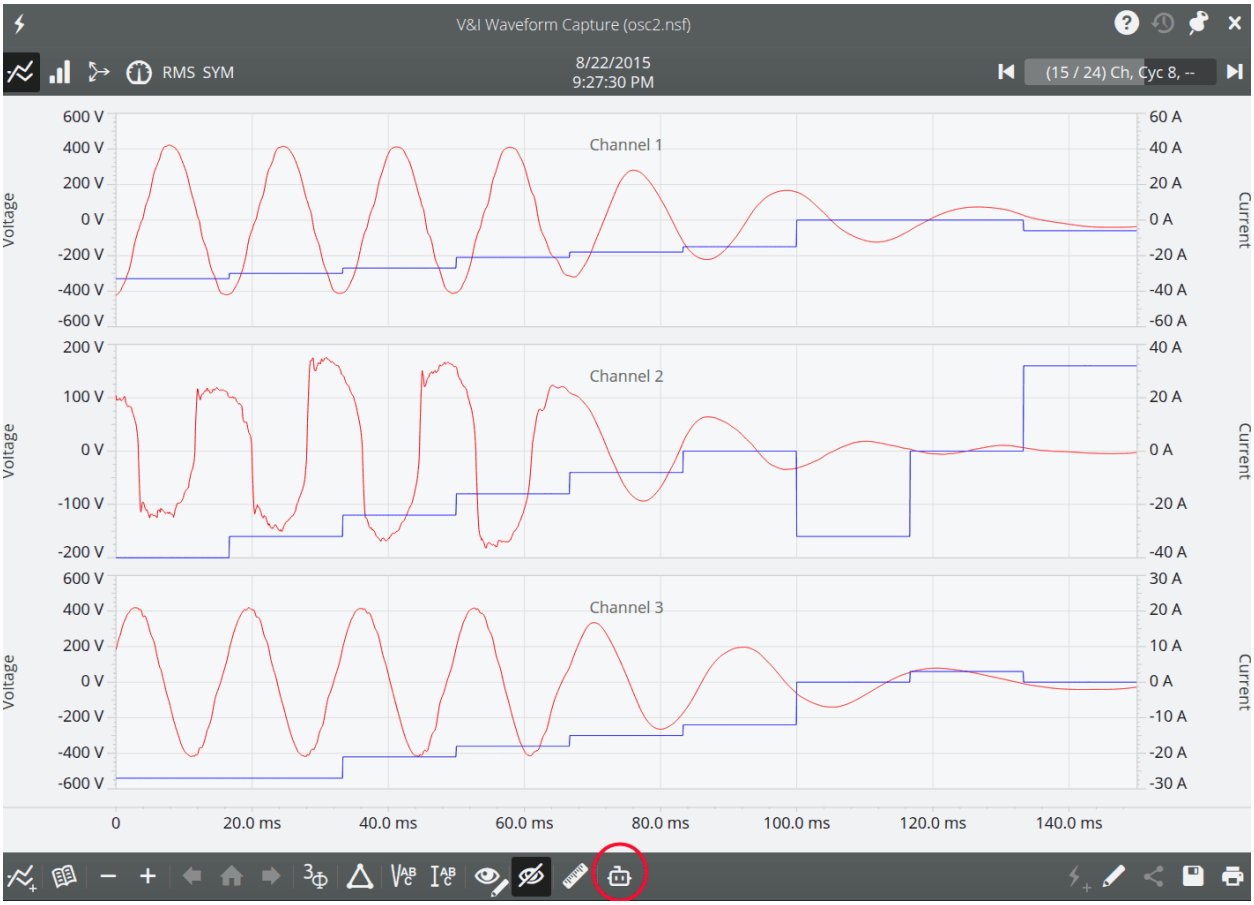
Timestamp	8/22/2015, 9:27 PM	Cycle	8
Channel	N/A	Duration	9
Trigger	--	Value	N/A



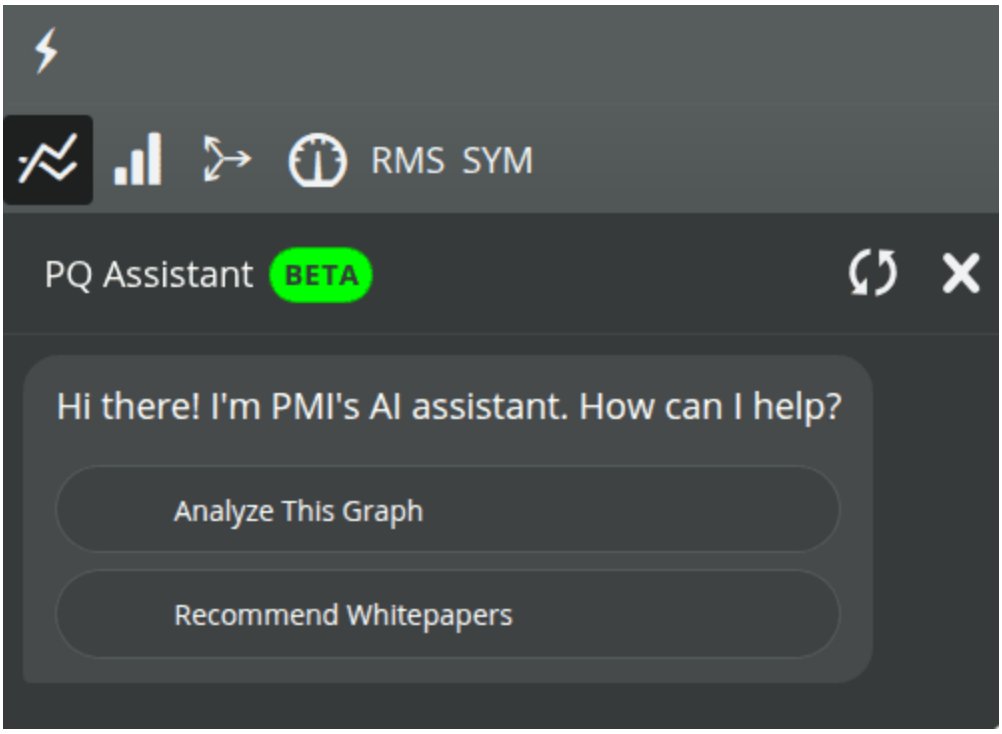
*Waveform Classifier is currently only available in the Beta Access program. Classification is limited to the first 100 waveforms of a recording at this time.

PQ Assistant*

From a recording waveform or stripchart, you can access another tool, the PQ Assistant chat function. Click the button near the bottom to begin a session.



In the chat, you have the option to "Analyze This Graph" or "Recommend Whitepapers". Start by selecting "Analyze This Graph", providing additional context if desired (e.g. This waveform was captured near an industrial park), and clicking send. The PQ Assistant will look at the graph and summarize the findings. After the PQ Assistant has finished responding, you can choose "Discuss the Analysis" to ask further questions or "Recommend Whitepapers" to recommend whitepapers from PMI's deep library.



*PQ Assistant is currently only available in the Beta Access program