FROG-5000 Napthalene Settings

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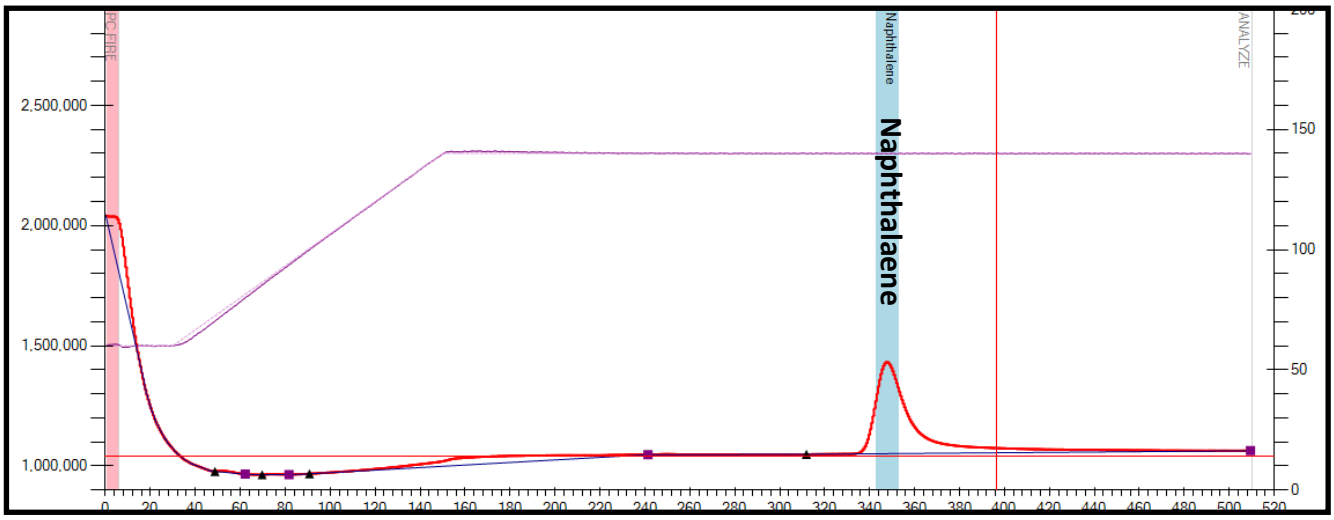

Parameter	Value
Ta	30
Tb	120
Tc	270
Ct	60
Ht	140
Collect	90 (water) 60 (air)
Clean	6
Presettle	4
Settle	2
Fire	6

This application note will help you with setting the appropriate run parameters to perform an analysis of Naphthalene on the FROG-5000. The settings on the left serve as a starting point. Naphthalene has a low vapor pressure, so in order to achieve a reasonable retention time for it, a Hot temperature, Ht, of 140°C is required. Naphthalene's low vapor pressure also requires the collect time to be set to 90 seconds when running an analysis of a water sample, allowing for better purging efficiency.

Hint: Although having a longer collect time in water works in favor of the detection of naphthalene, it is unfavorable for the detection of compounds with higher vapor pressures. Therefore, for water analyses that require naphthalene in addition to compounds that are more volatile, such as BTEX, the collect time should be set to no more than 60 seconds. If analysis of BTEX in combination with naphthalene is required, the BTEX/Naph application note can be found on our website at www.defiant-tech.com/application-notes.php.