

## Gas Chromatography

### GC-FID-NPD with Autosampler



**Brand :** Agilent Technology

**Model:** GC6890N

**Custodian :** Nuntanat Kitirivorapan

**Location :** K638 Room, 6<sup>th</sup> Floor, Chaloeprakiet Building, Phyathai Campus

Description	Specification
Auto injector	Fast injection Injection volume 0.1 - 5 microliter Syringe size 5 and 10 microliter
Auto Sampler	2 ml Sample vial up to 100 vials
Inlet	2 Injection port Split/Splitless Mode for capillary column Maximum temperature set up to 400°C Pressure control by Electronic Pneumatics Control (EPC)
Oven	Temperature range +4°C from room temperature up to 400°C Temperature program ramps up to 6 Steps Temperature program rate from 1 - 120°C/min
Flame Ionization Detector (FID)	Selective for general organic compounds Temperature range up to 400°C Linearity range $10^7$ Minimum detectable for propane is 5 pg/sec
Nitrogen Phosphorus Detector (NPD)	Selective for nitrogen or phosphorus compounds Temperature set up to maximum temperature 400°C Linearity range for nitrogen compound is $10^5$ Linearity range for phosphorus compound is $10^5$ Minimum detectable for nitrogen 0.4 pg/sec Minimum detectable for phosphorus 0.2 pg/sec