

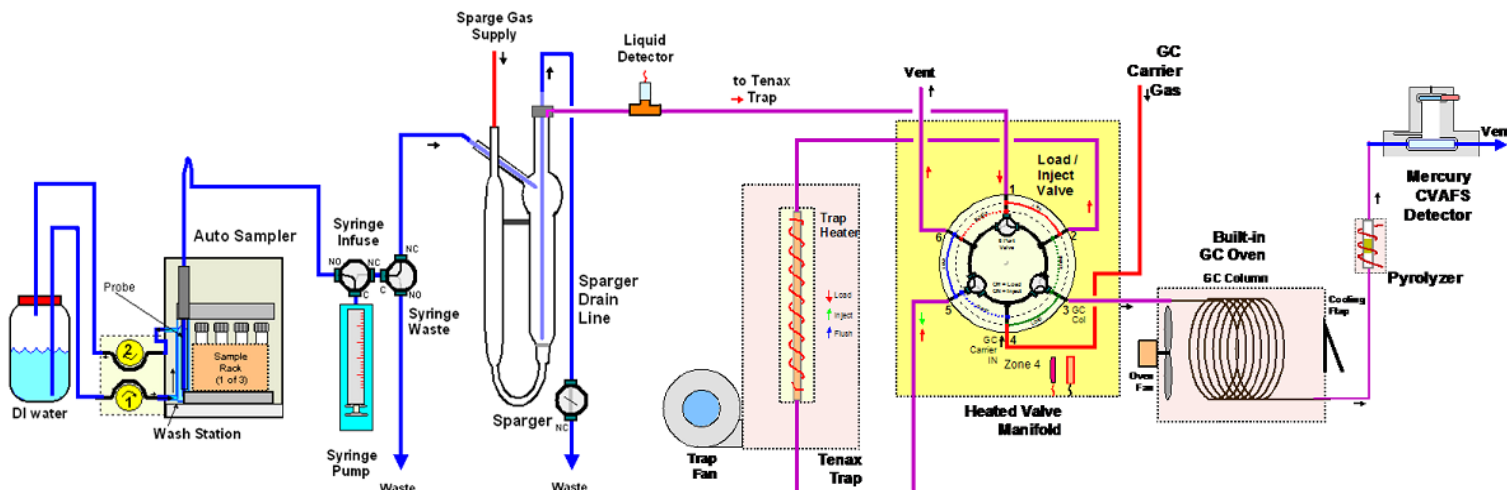
Preliminary

Tekran 2700 Methyl Mercury Analysis System



Tekran Instrument Corporation introduces the new **Tekran 2700 Methyl Mercury Auto-Analysis System**. The 2700 has been designed to give analytical laboratories and researchers an alternative to the time consuming and complex manual method (**EPA 1630**). The **Tekran 2700** accomplishes this in a fully integrated, self contained compact unit (**MDL=0.002 ng/L**), operated via state of the art software.

Tekran 2700 Flow Diagram

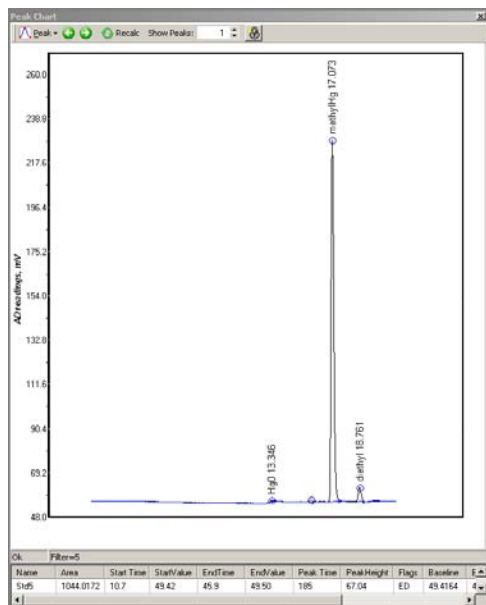


Tekran 2700 Auto-Analyzer Features

- Highly sensitive, ultra-stable CVAFS Hg detector
- MDL of 0.002ng/L
- Built-in GC oven
 - Programmable for either isothermal or temperature ramp chromatography
 - Accepts both capillary and packed GC columns
- IR trap heating and active cooling
- Utilizes traps made of Tenax OR Carbotrap
- Able to analyze either distilled or non-distilled samples
 - Direct ethylation or EPA 1630 distilled waters
 - Sediments and biota samples via distillation or extraction
- Autosampler with recirculating wash station
- Syringe drive for precise volumetric injection
- Liquid detector shuts down system in case of malfunction
- Heated valve manifold prevents potential losses
- Capable of interfacing to ICP/MS to yield isotopic ratios for methyl mercury
- Small foot print (51cm X 35cm X 52cm, L:W:H)

Tekran 2700 Software features

- Based on Model 2600 (Total Hg) Tek-MDS-2
- Full GC data system capabilities
- Developed “in-house” and fully supported
- Comes complete with EPA standard method
- Easily customized analytical sequences
- Automated trouble shooting and flushing sequences
- Fully programmable analysis cycle parameters for any special application



Command	Value	Start	Duration	Notes	End Time
1	MFC	80.0 ml/min	2	MFC: 80 ml/min for 400 sec	402
2	V2 Gas	ON	3	V2: GAS ON for 400 sec	403
3	V1 Vent	ON	5	V1 Vent for 15 sec	20
4	V2 LoadA	OFF	6	Force V2 LOAD OFF to allow analyt	9
5	FanA	OFF	8	Force FanA OFF	9
6	FanB	OFF	9	Force FanB OFF	10
7	HeaterA	100.0 %	10	HeaterA: 100% for 120 sec	130
8	AD12 Scan	0	20	AD12 Scan & Store	25
9	FanA	ON	130	FanA ON for 30 sec	160
10	HeaterA	0.0 %	171	HeaterA: 0 %	221
11	HeaterB	100.0 %	140	HeaterB: 100% for 40 sec	180
12	AD24 Start	0	190	Start DAG 50	200
13	FanA	ON	190	FanA ON for 30 sec	220
14	V1 Vent	ON	200	V1 Vent ON for 251 sec	451
15	V2 LoadA	ON	201	V2 LoadA ON for 250 sec	251
16	StripOut	n/a	202	* May CHANGE INJECT CarA. No 203	
17	Opt2 BEEP	ON	203	Opt2-2 ON for 1 sec. Audible alarm 204	255
18	FanB	ON	210	FanB ON for 45 sec	255
19	Done	0	250	1	251