



**FAKULTI SAINS GUNAAN
UNIVERSITI TEKNOLOGI MARA**

Thermogravimetry Analyzer (TGA) Sample Form

Instrument Model : TA Q500 (Manual sampler)

Note : 1. This TGA operates with **manual sampler**.
2. Maximum **5 samples** only are allowed for each application.
3. Please use **CD or Wi-Fi only** to copy your data from the computer. Any USB drivers are not allowed to be used.

(A) Particulars of Sample Owner

Name of
applicant:

Supervisor's
name
(if applicable):

Student ID:

Staff No:

Department and
Organization:

Telephone No.:

Telephone No.:

Email:

Email:

Supervisor's
signature:

Applicant's
signature:

Supervisor's
rubber stamp:

(B) Details of Samples (Please fill-up all details needed)

Details		Description	Remarks
(i)	Sample type:	ONLY SOLID	
(ii)	No. of sample:	Maximum 5 samples	
(iii)	Sample drying details: (ONLY <u>vacuum dried</u> sample shall be approved)	Vacuum drying temperature (°C):	
		Duration (minimum 24 h):	
		Brand and location of the vacuum oven (full name): (note: vacuum oven is accessible in MBPT)	
(iv)	Parameter:	a) Initial temperature: 50 °C	
		b) Final temperature: 350 °C (for 350 – 500 °C, special permission needed. Please include the required temperature and justify the necessity in the remarks. Please also include previous reference / journal available for the TGA thermogram)	
		c) Heating rate: 10 °C/min	

Note: TGA is not meant for unknown sample. Samples with chlorinated compounds, corrosive compounds and so on cannot be analyzed. Information for expected onset and endset of decomposition temperatures (T_d) must be provided.

	Sample ID	Name of sample	Expected value(s)		
			Onset T_d (°C) (compulsory)	Endset T_d (°C) (compulsory)	Remarks [please specify the chemical component(s) of your sample]
1					
2					
3					
4					
5					

T_d = decomposition temperature

PLEASE ALWAYS CONSULT THE TECHNICIAN-IN-CHARGE BEFORE SAMPLE SUBMISSION

This TGA sample form consists of 2 printed pages

For office use:

1	Name of technician / lecturer	:	
2	Date of sample(s) received	:	
3	Signature of coordinator (Chan C. H.)	:	

Checked by coordinator: Chan C. H., 016-3611760; cchan@uitm.edu.my