

Complete during measurement and retain with the corresponding test data.

1. Sample and measurement identification

Part number _____ Sample / serial ID _____
Operator _____ Date _____

2. Measurement setup

THz system / instrument _____ Source / detector _____
Frequency range _____ Frequency resolution _____
Beam diameter at polarizer _____ Clear aperture _____
Angle of incidence _____ Wire orientation _____

3. Before measurement

CHECK BEFORE STARTING

- | | |
|---|---|
| ☐ Part number and wire direction recorded | ☐ Angle of incidence recorded |
| ☐ Grid inspected without touching the aperture | ☐ Reference and sample alignment unchanged |
| ☐ Polarizer secured by the outer frame only | ☐ Detector response is not saturated |
| ☐ Beam centred within the clear aperture | ☐ Detector noise floor established |
| ☐ Beam diameter checked to avoid clipping | ☐ Purge or humidity conditions stabilised |

4. Acquisition conditions

Reference method _____ Scan sequence _____
Angular step near minimum _____ Averaging _____
Purge gas / flow or relative humidity _____ Stabilisation time _____
Other acquisition settings _____

5. Verify the true minimum

- ☐ Scan passes through the nominal minimum
- ☐ Finer angular steps used close to minimum
- ☐ Response measured on both sides of minimum
- ☐ Minimum determined by fit or interpolation
- ☐ Minimum compared with detector noise floor

6. Key results

RECORD VALUES

Minimum angle _____
Maximum signal _____
Minimum signal _____
Extinction ratio _____
Repeatability / uncertainty _____

7. Observations and notes

Data record / filename _____ Reviewed by _____



Protect the free-standing wire grid

Handle only by the outer frame. Never touch, wipe or apply pressure to the wire grid.