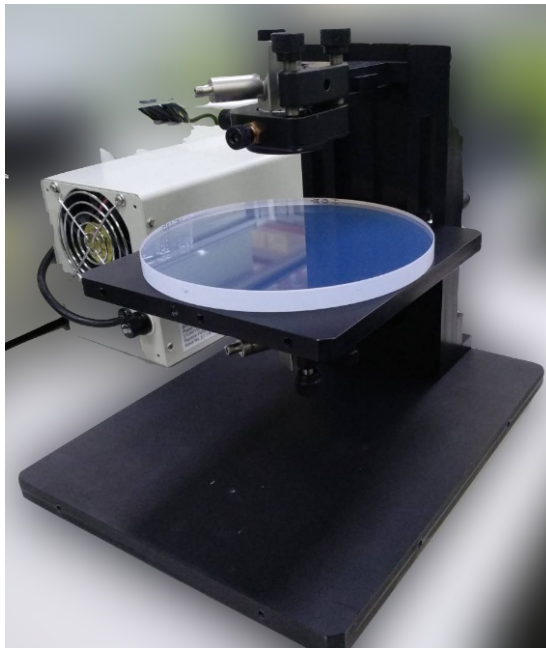


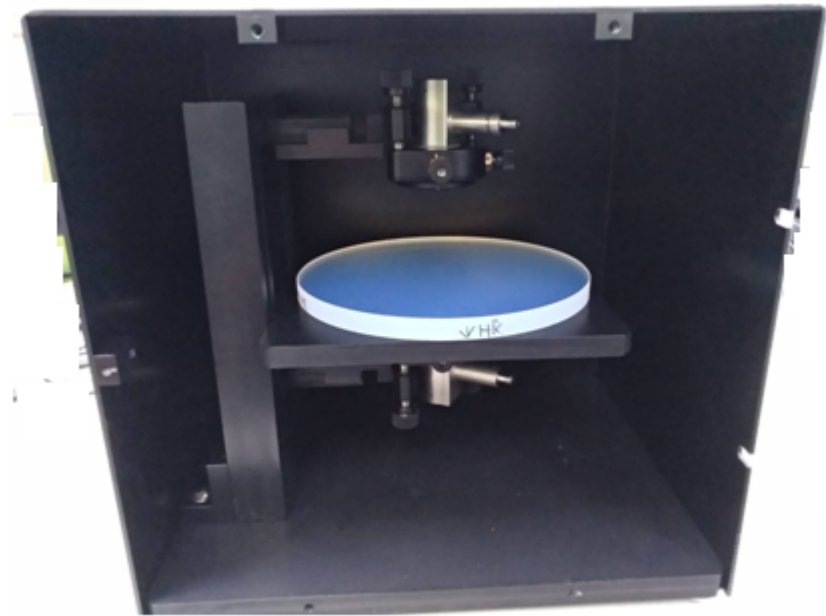
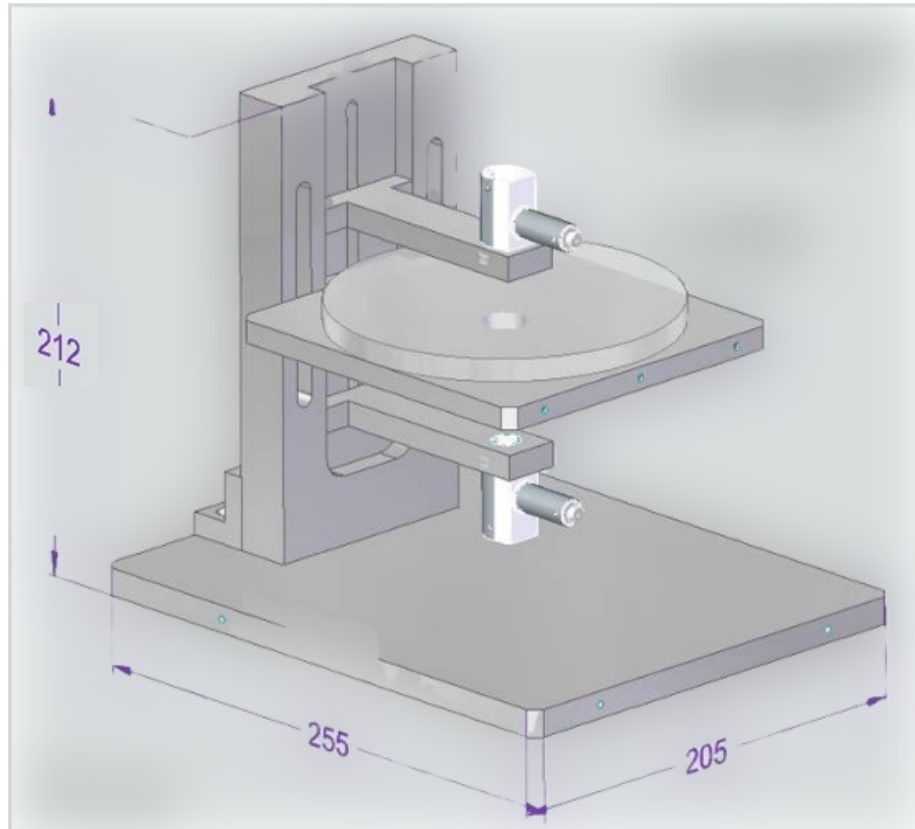
統新自行研發薄膜量測儀 Apogee Measuring System (AMS)



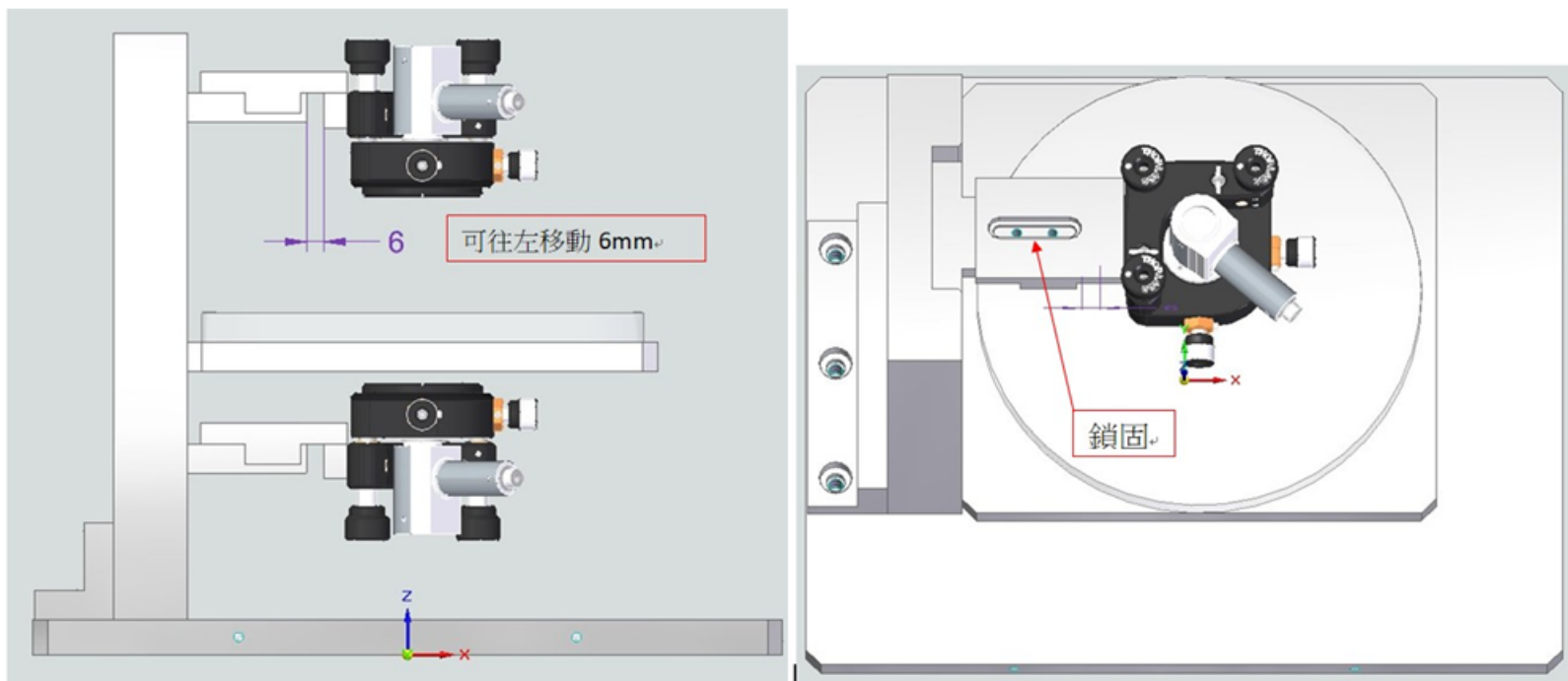
ACMS簡介

- 膜厚度測(10 nm-25 μ m)
- 折射率N、吸收係數K量測
- 廣波域量測(450-1000 nm, 1000-1600 nm)
- 反射率或穿透率光譜量測
- 光譜解析度 \sim 1 nm
- 光譜重複性 $<$ 0.03%
- 多層膜厚度D量測(厚度誤差 $<$ 2nm，精確度 $<$ 0.1 nm)
- 折射率誤差 $<$ 0.1
- 有機高分子材料、金屬氧化物、氮化物、半導體材料、介電質材料等
- 基板尺寸平臺皆可客制(標準品: 4")

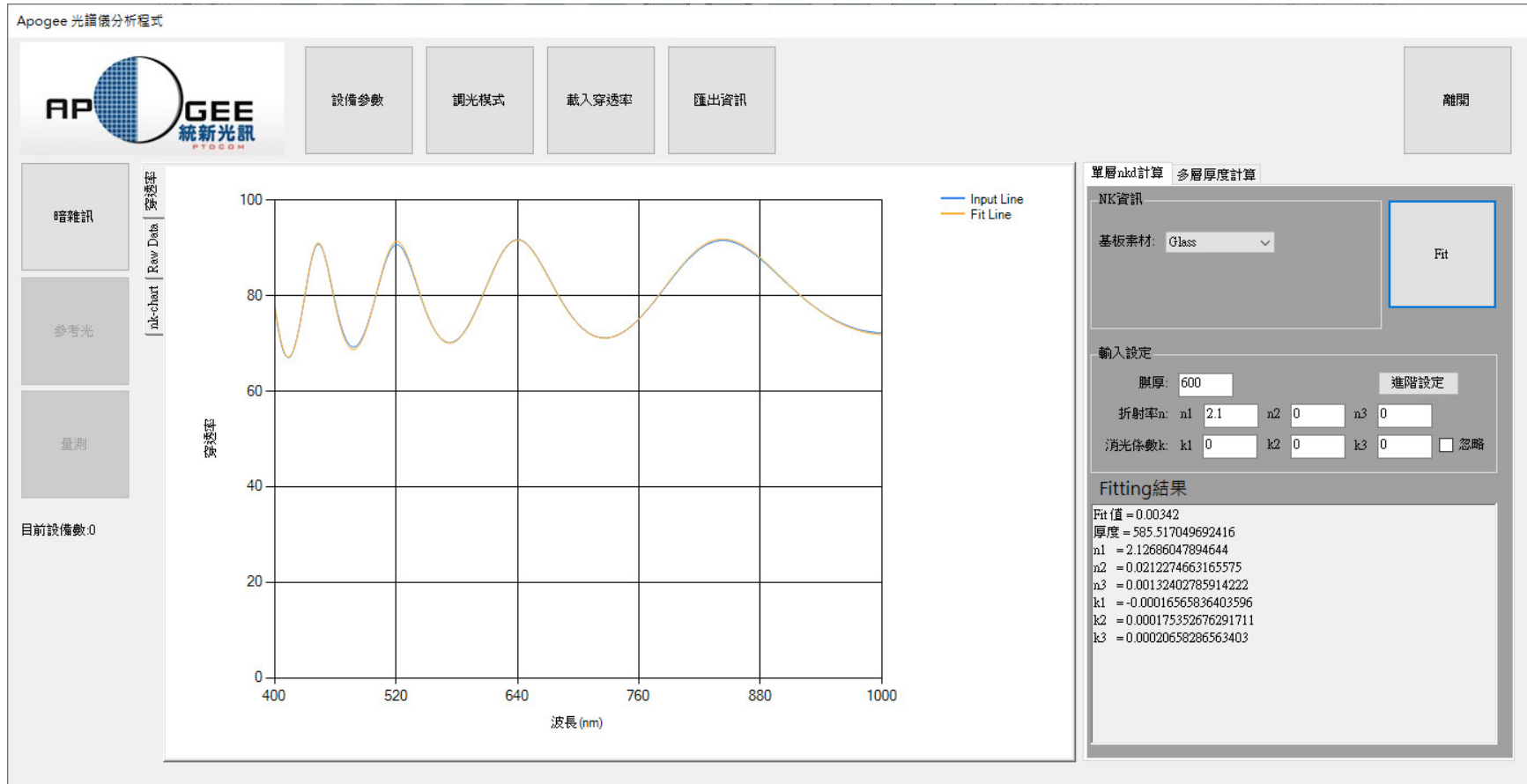
ACMS架構



ACMS微調整座



ACMS操作介面



ACMS操作介面

FormSetting

Prepare Measurement Data

	Serial Number	Detector Type	Total Pixels	Start Pixel	Stop Pixel	Integration Time [ms]	Integration Delay [ms]	Averaging
▶	2002069U1	HAMG9208_512	512	65	310	2.00	0	30

參數設定

設備序號: 2002069U1

Integration Time [ms]: 2.00

Integration Delay [ms]: 0.00

Start Pixel: 65 對應波長: 1400.759

Stop Pixel: 310 對應波長: 1600.385

Average Num: 30

Smoothing: 0

讀取 EEPROM 寫入 EEPROM 設定

ExportForm

路徑: C:\Users\31320\Desktop

檔名: ExportData_20210317_111437

匯出項目

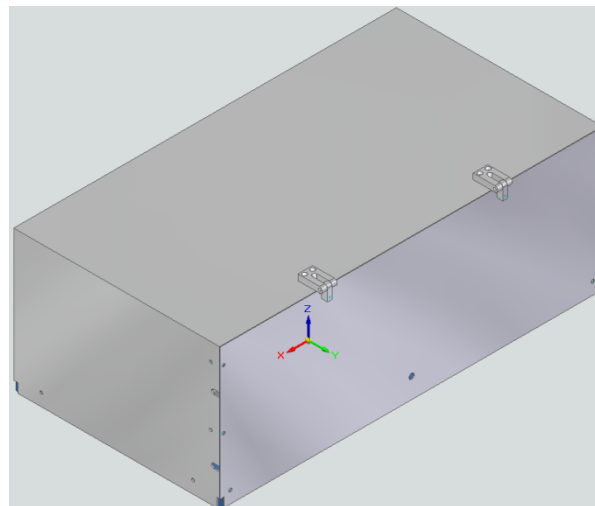
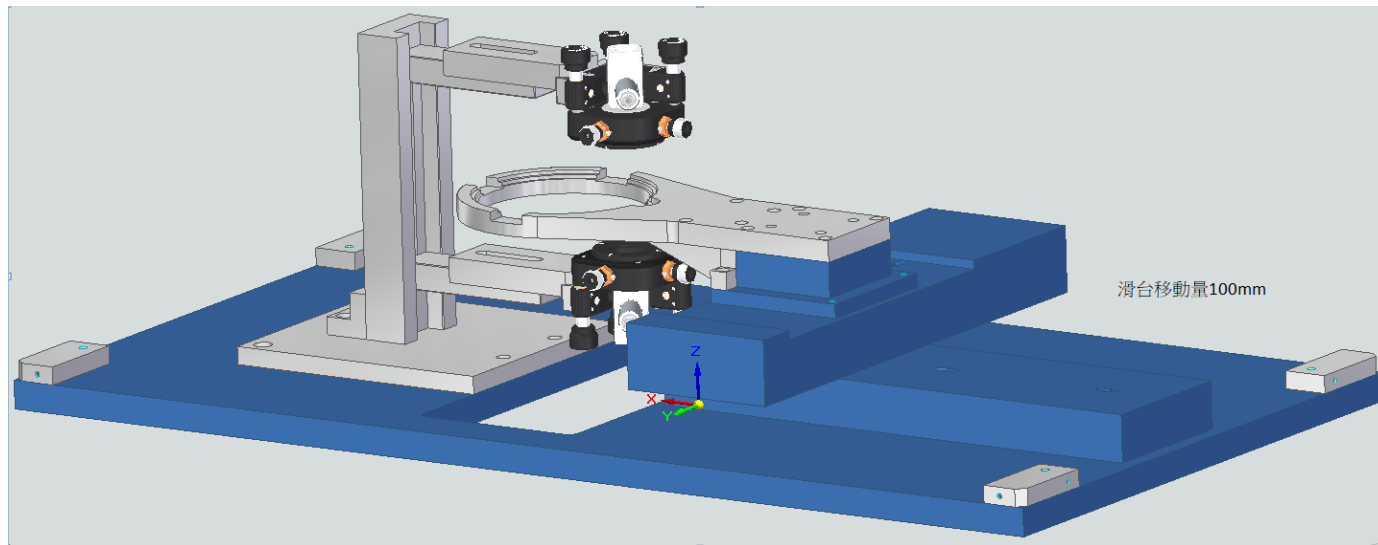
波長 穿透率(%) 參考光 暗雜訊 量測值

分析報告: nkd資料分析

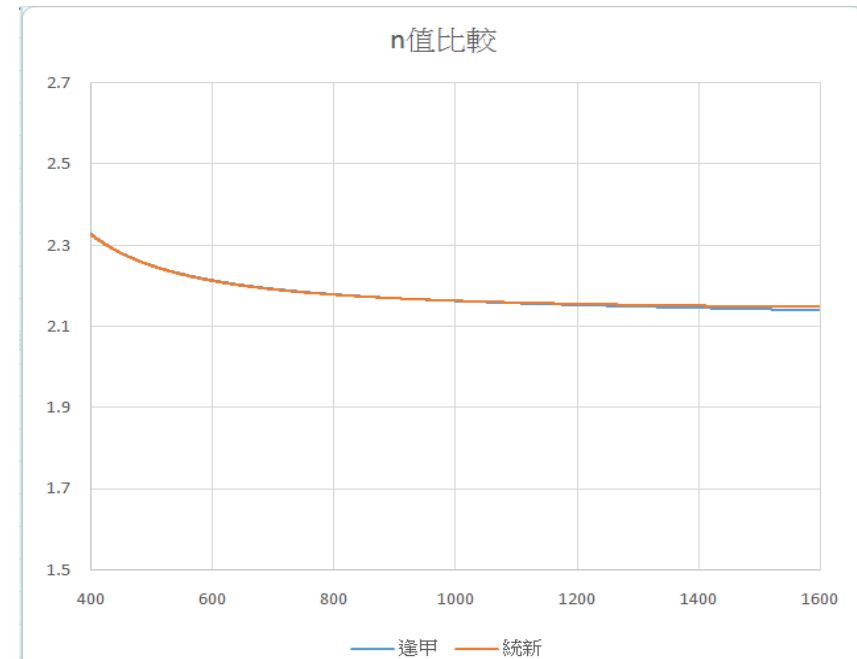
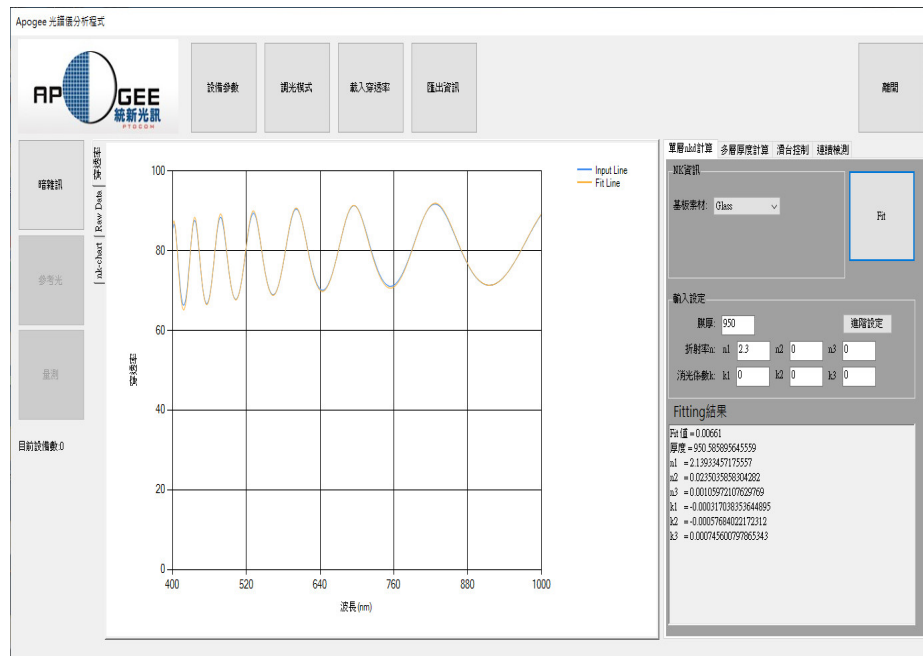
將資料整理成每1nm(波長)一筆

存檔 離開 確定

自動量測點位加裝

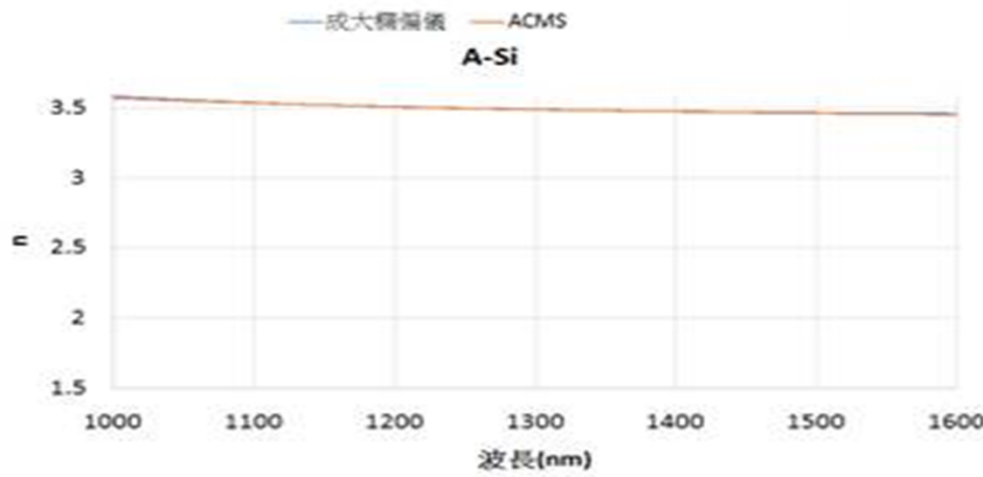
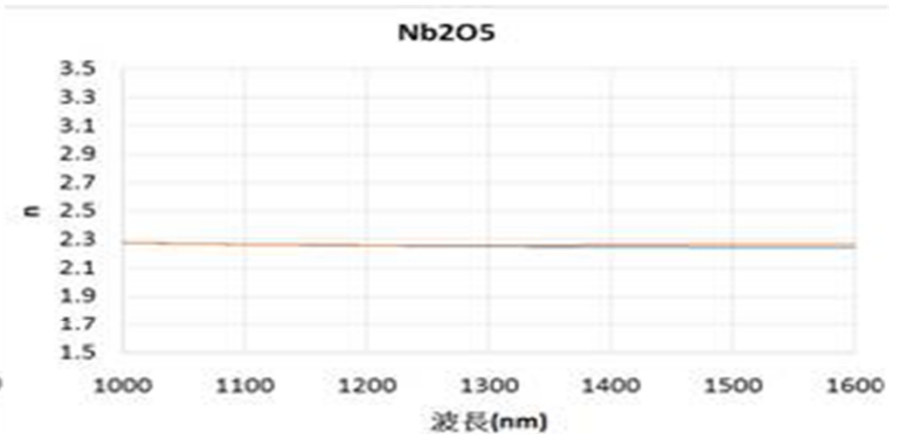
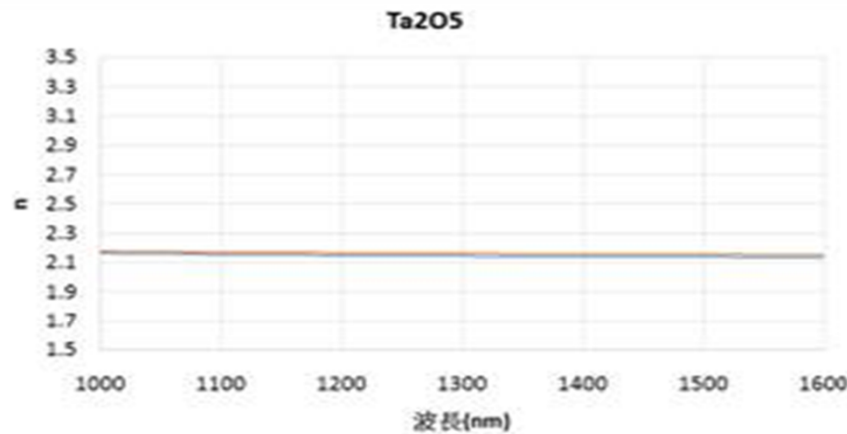


量測試驗



Ta2O5單層膜光譜量測和Angilent Cary7000一致
跟J. A Woollam m-2000 橢偏儀相較計算折射率差異<0.1
厚度差異< 2nm

量測試驗 II



跟J. A Woollam m-2000 橢偏儀相較計算
折射率差異<0.1
厚度差異< 2nm