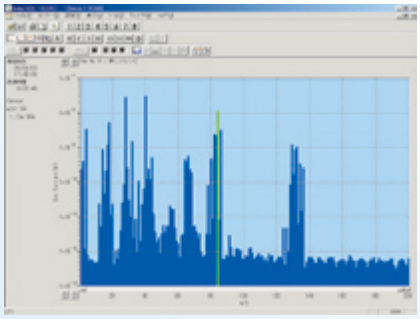
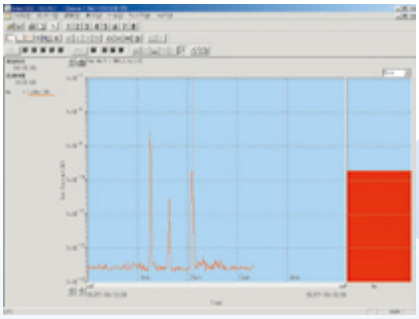
Software for Gas Analysis Qulee QCS

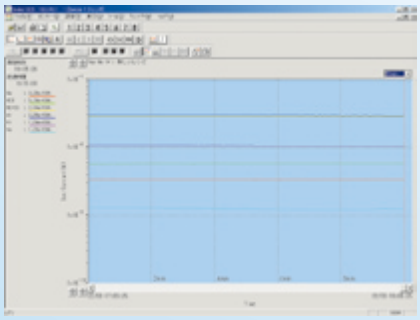
"Qulee QCS" is a software package for gas analyzers and process monitors manufactured by ULVAC.
"Qulee QCS" is suitable for all Quadrupole gas spectrometers made by ULVAC. Older software can be upgraded to this QCS version.
Data acquisition and saving data is carried out by simple key strokes.



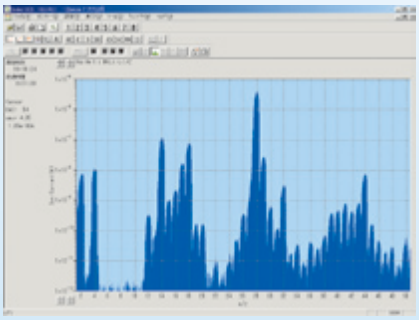
Scan Mode



Leak-test Mode



Trend Mode



Analog Mode

Features

- **QCS is Standard software for the Qulee Series RGA units**
  Suitable for all Qulee series (Windows XP/7)
- **Simple Operation**
  Easy operation with use of short cut buttons
- **Various Measurement Modes**
  Options include scan mode, trend mode, analog mode, sensitivity-calibration mode
- **Leak-test Function**
  Easy leak check by using the helium leak test mode
- **Indication of Gas Composition Name**
  Able to display the gas composition name in scan mode
- **Recipe Setting**
  Measurement-condition control by creating simple recipe programs
- **Able to Integrate Up to 8 RGA Units**
  Simultaneously control up to 8 units in various modes
- **Various Functions**
  Able to subtract background noise.
  Able to integrate various functions of the region measured.
  Ion source and secondary electron multiplier protection and maintenance management function.
  Traceability management function of the analysis tube. (patent: 5016031)
  Simultaneous recording analog data in 2 points.
  Possible to set 2 partial pressure outputs. (in the trend mode measurement)
- **Data Storing Function Using CSV Format**
  Capable of storing in CSV format retreavable by using the table calculation software
- **Version Change**
  Capable of being modified for older versions of ULVAC RGA including QCS 2001 or MSQ-400 etc.

Software for Gas Analysis Qulee QCS

Specifications

Model	Qulee QCS Ver. 3.0	Qulee QCS Ver. 1.0
OS	Microsoft® Windows XP/7 (32bit, 64bit)	Up to Microsoft® Windows XP
Interface	RS232C/RS485 (via a converter for RS485)	
Sensor Number	Free combination of up to 8 sensors of various models (with RS485)	
Sensor model	Qulee CGM / Qulee BGM / Qulee HGM / Qulee RGM	REGA / REPROS / SEPION / STANDAM / ST-400
Recipe	100 (70 in the user area)	
Sweep speed	50, 100, 200, 500, 1000, 2000 msec/mass	
Sampling interval	Auto, 0.5 to1000 sec (in the trend mode), 1to1000 sec (in the scan mode)	
Measurement end time	Continuous, or free setting	
Measurement mode	Scan mode: Measuring the mass spectrum in various mass range (model dependent) Trend mode: Measuring partial pressure to time up to 20 channels Leak-test mode: One-touch helium leak testing Analog mode: Analog wave measurement for mass number calibration Sensitivity-calibration mode: Calibration of the sensitivity of the SEM detector	
	DEGAS mode: Controlling the electron bombardment type outgassing of ionsource (except RGM)	DEGAS mode: Controlling the electron bombardment type outgassing of ionsource (only SEPION)
Indication of gas composition name	Able to indicate the gas composition name in scan and trend mode	
Function	Background subtraction / Integration of measured area	
Analog Input	0 to 10V (2 points)	
Set-point	Partial pressure set-points in 2 channels (Error and warning) (only in trend mode)	
Electron energy for ionization	fixed (HGM25 to 70eV / RGM20 to 70eV)	20 to 70eV (only REPROS), fixed (other)
Status Check	Error detection (communication error, filament break, RF error, interlock) Total running time of Filament and SEM	
Display	Vertical axis: Linear and the logarithmic selectable. Display range selectable [Current (A), partial pressure (Pa), concentration (ppm)] Horizontal axis: Mass number (scan mode and analog mode) and time (trend mode). Able to change and scroll the Horizonal axis range. Indicate saved data (able to indicate saved data during measurement) Bar chart and line chart is simultaneously indicated.	
Data save	Auto save, or saved after measurement	
	The file is named by combination of time and date at starting point of measurement. (Auto save)	
	Filename is selectable. Saving place can be set	
	File can be converted to CVS format (for Past Data)	
Print data	Graph displayed in scan, trend or analog mode can be printed	
	Setting screen range to be printed / Setting data color & radius of trend graph	
Option	Host communications facilities: • Measurement date of trendy mode can be transmitted through RS232C communication by a demand from host computer. Analog Output: • During the trendy mode measurment, an analog of the nuclear number data which appointed every measorment interval is performed.	
Recommendation of PC	HDD: 2 MB (except measurement data), RAM: 256 MB or more, CPU: Pentium3 1.2 GHz or higher, display area: 1024 × 768 or more, COM port, CD-ROM drive	

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