

Compatibility

Single/triple quad, SIM/MRM/SCAN, MassHunter / ChemStation / SCIEX data and methods.

What Quanto can read today: instruments, acquisition modes, raw data, and vendor methods. Formats land through **add-ins** under `AddIns\` (see [Installation and folders](#) and [Creating add-ins](#)).

Platform

Item	Requirement
OS	Windows 10 or 11, 64-bit only
Runtime	.NET 10 Desktop Runtime (x64), unless your installer bundles it
Host	WPF desktop (<code>Quanto.WPF.exe</code>); not a service, not Linux

Sizing and Analyze performance: [Hardware and performance](#).

Instruments and acquisition modes

Quanto is built for **GC/LC–MS quantitative** work on **single quadrupole** and **triple quadrupole (QQQ)** data.

Mode	Meaning in Quanto	Typical instrument
SCAN	Full-scan MS1 extracted-ion chromatogram (EIC)	Single quad GC-MS / MS1 scan
SIM	Selected-ion monitoring	Single quad
MRM / MS-MS	Multiple-reaction monitoring (precursor → product)	Triple quad (QQQ)
Combinations	Mixed modes in one sample (e.g. SCAN+SIM)	Supported where the vendor file exposes them

Internally, chromatogram extraction uses `ChromatogramAcquisitionMode: Auto, Scan, Sim, MsMs`. **Auto** detects from the file and tries alternates if a channel comes back empty. TIC for a mode is that mode's primary TIC — not a sum of mixed modes.

MassHunter `.D`: detector classifies SingleQuadrupole vs QQQ / MRM / SIM / SCAN from the embedded acquisition method and scan types.

ChemStation `.D`: modes are SCAN, SIM, or **ScanAndSim** (`data.ms` / `dataSim.ms`). SIM windows can come from classic `acqmeth.txt`.

SCIEX WIFF: MRM transitions from the WIFF (Clearcore2 / SCIEX APIs).

Raw data (data providers)

Vendor	Add-in (class)	What you point at	Notes
Agilent MassHunter	AgilentMassHunterDataProvider	.D sample folders	Reads MassHunter data; may use Agilent TDA indexed-data conversion (<code>TDAConverterConsole.exe</code>) when indexed data is required for chromatogram access
Agilent ChemStation / MSD	AgilentChemStationDataProvider	.D sample folders	Reads ChemStation data natively via Agilent MSDChem (<code>MSDChemDataFile</code>) — no TDA / format conversion step
SCIEX	SciexWiff	.wiff files	Reads SCIEX WIFF through Clearcore2 / SCIEX vendor DLLs

All three also implement sample discovery (`FindSamples`) and fill common bottle metadata when present (name, acquired time, instrument, position, dilution, dose/level hints).

Vendor native DLLs ship under:

- `AddIns\VendorSupportFiles\Agilent\`
- `AddIns\VendorSupportFiles\Sciex\`

Method import (method importers)

Source	Add-in (class)	What you point at	What comes in
MassHunter quant method	AgilentMhMethod	.m method folder (... \DaMethod\Quant\quantitative.xml) or .quantmethod.xml	Compounds, ISTD flags, transitions, expected RT, curve hints
MassHunter method from data	AgilentMassHunterDataMethod	.D data folder	Method inferred from acquisition / MRM content in the data file
ChemStation quant method	AgilentCsMethod	.M method folder containing qdb.mth	Compounds from ChemStation QDB
SCIEX method from data	SciexWiffMethod	.wiff file	MRM compounds / transitions built from the WIFF (standalone .msm is not supported with the current minimal SCIEX DLL set)
Quanto package	(built-in host path)	.qtm	Full Quanto method (analytes, quants, doses, ISTD links, types, optional stored calibration and reports)

Import UX: **Method** → **Load / Import** — **Replace** or **Append** (Append uses a new **AcqKey** for multi-instrument / Key Review). Details: [Reports, import, and export](#).

Vendor methods do **not** set Quanto's Calibration mode; new work defaults to Initial calibration unless you change it.

Peak integration (integrators)

Integrator	Role
Quanto	Shipped high-performance peak detector (default on channels)
Slice	Placeholder / alternate integrator slot (extensibility sample)

Per-channel integrator name and settings live on the method; custom integrators are add-ins (see [Creating add-ins](#)).

Capability checklist

Capability	Status
Single Quad data (SCAN / SIM)	Supported (MassHunter + ChemStation)
Triple Quad / QQQ data (MRM)	Supported (MassHunter + SCIEX; ChemStation as exposed by MSDChem)
SCAN + SIM combinations	Supported where the file layout exposes both (e.g. ChemStation ScanAndSim)
Import MassHunter method	Yes (<code>.m</code> / <code>.quantmethod.xml</code>)
Import MassHunter method from data file	Yes (from <code>.D</code>)
Import ChemStation method	Yes (<code>.M</code> + <code>qdb.mth</code>)
Import SCIEX method from data file	Yes (from <code>.wiff</code>)
Read MassHunter data	Yes
Read ChemStation data without conversion	Yes (native MSDChem)
Read SCIEX data	Yes (<code>.wiff</code>)

Related

- Analyst import/export workflow: [Reports, import, and export](#)
- Install layout and permissions: [Installation and folders](#)
- Extending formats: [Creating add-ins](#)