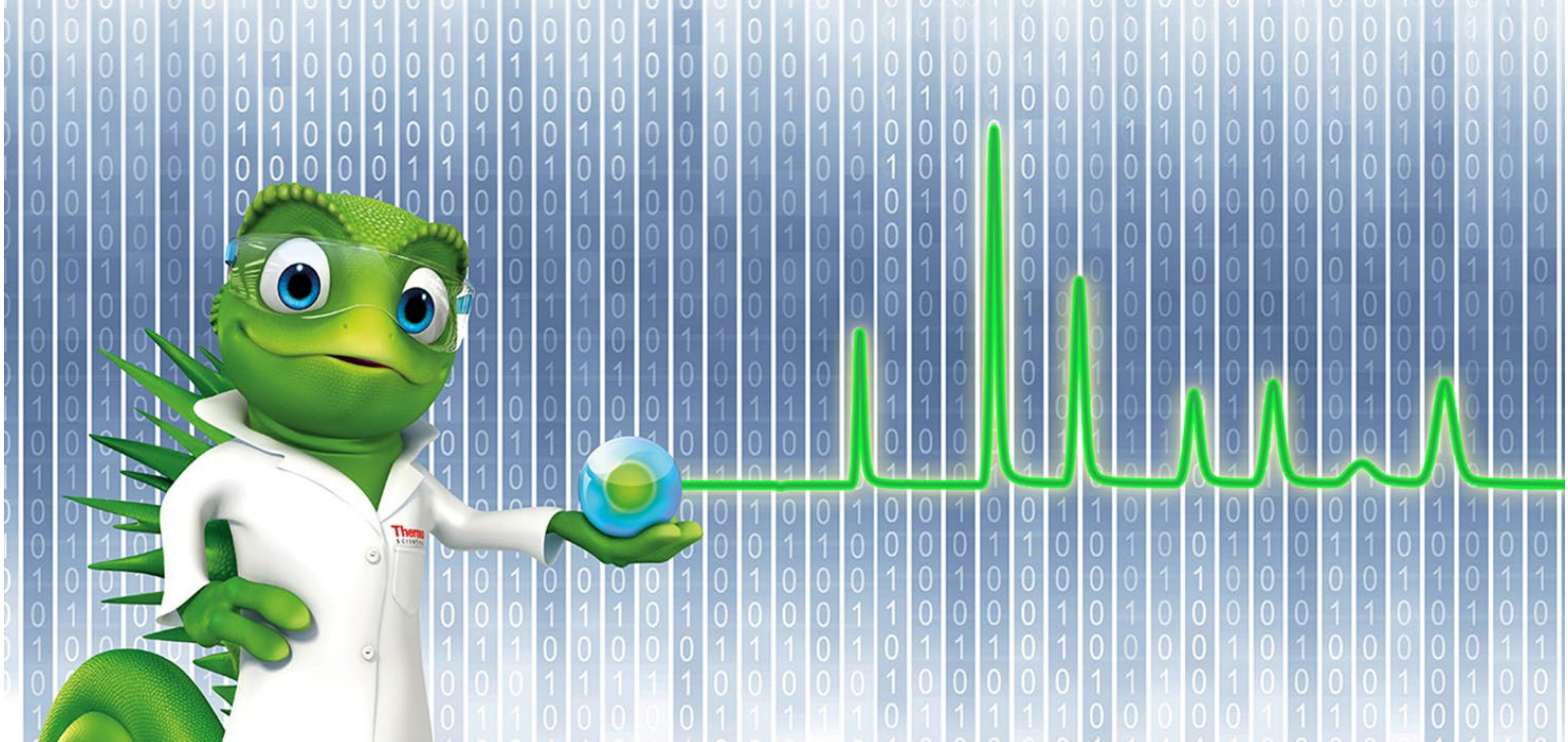




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List of Supported Instruments

SII for Xcalibur 1.8

Document Revision: 1.0
March 2024

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1 Introduction

This document lists all the instruments/modules supported for use with SII for Xcalibur as well as recommended software versions.

The following information is included:

- **System/Family:** Lists the name of the instrument system or family.
- **Category:** Lists the separation methodology.
- **Type:** Shows the type of module (for example, Pump, Photodiode Array Detector).
- **Model:** Provides the model number of the instrument or module.
- **Interface Type:** Describes the type of connection used between the instrument and the PC.
- **Driver Version:** (Mass spectrometers only) Displays the required driver version for mass spectrometers which have been tested for compatibility with all components of SII for Xcalibur.
- **Firmware Version:** For firmware version for Thermo Scientific instruments delivered with this release, please see the List of Supported Instruments for Chromeleon 7.3.2 provided with this release.

Revision history

Revision	Date	Comment
1	Mar 2024	Initial Product Release (SII for Xcalibur 1.8)

Note: Changes made since the previous version of this document are highlighted in yellow



Denotes newly added supported instruments in the current revision of the document.

2 Supported configurations

Not all MS drivers have been designed to be compatible with all Foundation and Xcalibur versions. Please consult the documentation for your MS driver to ensure that it is compatible with the corresponding Foundation version.

There exist various versions of Thermo Scientific Foundation, Xcalibur, TraceFinder, and mass spectrometer driver software in the field. This may lead to a large number of software combinations that do not work with SII for Xcalibur 1.8.

At the time of its release, SII for Xcalibur 1.8 was validated with TraceFinder 5.1 SP3 and Xcalibur 4.7

3 Thermo Scientific Chromatography Modules supported under SII for Xcalibur 1.8

System/Family	Category	Type	Model	Interface Type
Dionex – ICS	Ion Chromatography	Compact Ion Chromatography System	ICS-2100	USB 1.1, with self-powered hub
Dionex – ICS	Ion Chromatography	Compact Ion Chromatography System	ICS-4000	USB 1.1, with self-powered hub
Dionex – ICS	Ion Chromatography	Compact Ion Chromatography System	Integrion HPIC System	USB 2.0, with self-powered hub
Dionex – ICS-5000+ ^[1]	Ion Chromatography	IC Autosampler (advanced performance) and Fraction Collector	AS-AP	USB 1.1, with bus-powered hub
Dionex – ICS-5000+ ^[1]	Ion Chromatography	Chromatography Compartment	DC Detector / Chromatography Compartment	USB 2.0, with self-powered hub
Dionex – ICS-5000+ ^[1]	Ion Chromatography	Pump	DP Dual Pump	USB 1.1, with bus-powered hub
Dionex – ICS-5000+ ^[1]	Ion Chromatography	Pump	SP Single Pump	USB 1.1, with bus-powered hub
Dionex – ICS-5000+ ^[1]	Ion Chromatography	Eluent Generator	EG Eluent Generator	USB 2.0, with self-powered hub
Dionex – ICS-6000	Ion Chromatography	Chromatography Compartment	DC Detector / Chromatography Compartment	USB 2.0, with self-powered hub

System/Family	Category	Type	Model	Interface Type
Dionex – ICS-6000	Ion Chromatography	CDM	Consumables Device Monitor	USB 2.0, with self-powered hub
Dionex – ICS-6000	Ion Chromatography	Pump	DP Dual Pump	USB 1.1, with bus-powered hub
Dionex – ICS-6000	Ion Chromatography	Pump	SP Single Pump	USB 1.1, with bus-powered hub
Dionex – ICS-6000	Ion Chromatography	Eluent Generator	EG Eluent Generator	USB 2.0, with self-powered hub
Dionex – UltiMate 3000	UHPLC	Autosampler	WPS-3000 ^[3] ^[4]	USB 1.1, with self-powered hub
Dionex – UltiMate 3000	UHPLC	Dual Gradient Pump	DGP-3x00 ^[3]	USB 2.0, with self-powered hub
Dionex – UltiMate 3000	UHPLC	High Pressure Gradient Pump	HPG-3x00 ^[3]	USB 2.0, with self-powered hub
Dionex – UltiMate 3000	UHPLC	Low Pressure Gradient Pump	LPG-3x00 ^[3]	USB 2.0, with self-powered hub
Dionex – UltiMate 3000	Nano LC	Nano / Cap Pump	NCP-3200RS	USB 2.0, with self-powered hub
Dionex – UltiMate 3000	Nano LC	Nano Pump / Capillary Loading Pump	NCS-3500RS	USB 2.0, with self-powered hub

System/Family	Category	Type	Model	Interface Type
Dionex - UltiMate	UHPLC	Thermostatted Column Compartment	TCC-3x00 ^[3]	USB 1.1
Dionex - UltiMate	Nano LC	LC Flow Manager	FLM-3x00 ^[3]	USB 1.1
Dionex - UltiMate	UHPLC	Diode Array Detector	DAD-3000 ^[3]	USB 1.1
Dionex - Ultimate	UHPLC	Variable Wavelength Detector	VWD-3x00 ^[3]	USB 1.1
Dionex / ESA	Detector	Charged Aerosol Detector	Corona Veo RS	USB
Dionex / ESA	Detector	Charged Aerosol Detector	Corona Veo	USB
Thermo Scientific Vanquish	UHPLC	Split Sampler HT	VH-A10-A	USB
Thermo Scientific Vanquish	UHPLC	Dual Split Sampler HT	VH-A40-A	USB
Thermo Scientific Vanquish	UHPLC	Split Sampler FT	VF-A10-A	USB
Thermo Scientific Vanquish	UHPLC	Dual Split Sampler FT	VF-A40-A	USB
Thermo Scientific Vanquish	UHPLC	Split Sampler CT	VC-A12-A	USB
Thermo Scientific Vanquish	UHPLC	Split Sampler C	VC-A13-A	USB
Thermo Scientific Vanquish	UHPLC	Charger	VH-A90-A	USB
Thermo Scientific Vanquish	UHPLC	Binary Pump H	VH-P10-A	USB

System/Family	Category	Type	Model	Interface Type
Thermo Scientific Vanquish	UHPLC	Binary Pump F	VF-P10-A	USB
Thermo Scientific Vanquish	UHPLC	Quaternary Pump F	VF-P20-A	USB
Thermo Scientific Vanquish	UHPLC	Dual Pump F	VF-P32-A	USB
Thermo Scientific Vanquish	UHPLC	Binary Pump C	VC-P10-A	USB
Thermo Scientific Vanquish	UHPLC	Quaternary Pump C	VC-P20-A	USB
Thermo Scientific Vanquish	UHPLC	Quaternary Pump CN	VC-P21-A	USB
Thermo Scientific Vanquish	UHPLC	Isocratic Pump C	VC-P40-A	USB
Thermo Scientific Vanquish	UHPLC	Dual Pump C	VC-P32-A	USB
Thermo Scientific Vanquish	UHPLC	Dual Pump CN	VC-P33-A	USB
Thermo Scientific Vanquish	UHPLC	Column Compartment H	VH-C10-A	USB
Thermo Scientific Vanquish	UHPLC	Column Compartment C	VC-C10-A	USB
Thermo Scientific Vanquish	UHPLC	Diode Array Detector HL	VH-D10-A	USB
Thermo Scientific Vanquish	UHPLC	Diode Array Detector FG	VF-D11-A	USB
Thermo Scientific Vanquish	UHPLC	Diode Array Detector CG	VC-D11-A	USB

System/Family	Category	Type	Model	Interface Type
Thermo Scientific Vanquish	UHPLC	Multiple Wavelength Detector CG	VC-D12-A	USB
Thermo Scientific Vanquish	UHPLC	Variable Wavelength Detector F	VF-D40-A	USB
Thermo Scientific Vanquish	UHPLC	Variable Wavelength Detector C	VC-D40-A	USB
Thermo Scientific Vanquish	UHPLC	Fluorescence Detector F	VF-D50-A	USB
Thermo Scientific Vanquish	UHPLC	Fluorescence Detector F with Dual-PMT ^[2]	VF-D51-A	USB
Thermo Scientific Vanquish	UHPLC	Fluorescence Detector C	VC-D50-A	USB
Thermo Scientific Vanquish	UHPLC	Fluorescence Detector C, Dual-PMT	VC-D51-A	USB
Thermo Scientific Vanquish	UHPLC	Vanquish Solvent Monitor, 4-/8-channel		USB
Thermo Scientific Vanquish	UHPLC	Vanquish System Controller		LAN
Thermo Scientific Vanquish	Low-flow UHPLC	Vanquish Neo System	VN-S10-A	USB
Thermo Scientific Vanquish	Low-flow UHPLC	Column Compartment N	VN-C10-A ^[5]	USB
Thermo Scientific – A2D Converter (Serial numbers > 015000)	Dual-Channel Analog to digital converter	A2D		USB
Dionex – Miscellaneous	Pump, sample loading	Pump, sample loading	AXP, AXP-MS	RS-232

System/Family	Category	Type	Model	Interface Type
Thermo Scientific – TRACE 1300/1300E GC	Gas Chromatography			
Thermo Scientific – TRACE 1300 Series	Gas Chromatography	GC Main	TRACE1300 / 1310	LAN
Thermo Scientific – TRACE 1300 Series	Gas Chromatography	GC Main	TRACE1300E	LAN
Thermo Scientific – TRACE 1300 Series	Gas Chromatography	GC Oven	TRACE1300 / 1310	(via GC)
Thermo Scientific – TRACE 1300 Series	Gas Chromatography	GC Auxiliary	Auxiliary Oven	(via GC)
Thermo Scientific – TRACE 1300 Series	Gas Chromatography	GC Inlet	Split/Splitless with and without backflush	(via GC)
Thermo Scientific – TRACE 1300 Series	Gas Chromatography	GC Inlet	Helium Saver Split/Splitless inlet	(via GC)
Thermo Scientific – TRACE 1300 Series	Gas Chromatography	GC Inlet	GSV Split/Splitless inlet	(via GC)
Thermo Scientific – TRACE 1300 Series	Gas Chromatography	GC Inlet	Programmable Temperature Vaporization (PTV) with and without backflush	(via GC)
Thermo Scientific – TRACE 1300 Series	Gas Chromatography	GC Detector	Flame Ionization Detector (FID)	(via GC)
Thermo Scientific – TRACE 1300 Series	Gas Chromatography	GC Detector	Flame Ionization Detector (FID – 600Hz)	(via GC)
Thermo Scientific – TRACE 1300 Series	Gas Chromatography	GC Detector	Thermal Conductivity Detector (TCD)	(via GC)
Thermo Scientific – TRACE 1300 Series	Gas Chromatography	GC Detector	Nitrogen Phosphorus Detector (NPD)	(via GC)

System/Family	Category	Type	Model	Interface Type
Thermo Scientific – TRACE 1300 Series	Gas Chromatography	GC Detector	Electron Capture Detector (ECD)	(via GC)
Thermo Scientific – TRACE 1300 Series	Gas Chromatography	GC Detector	Flame Photometric Detector (FPD)	(via GC)
Thermo Scientific – TRACE 1300 Series	Gas Chromatography	GC Detector	Pulse Discharge Detector (PDD)	(via GC)
Thermo Scientific – TRACE 1300 Series	Gas Chromatography	GC Detector	Generic Detector Interface (GDI)	(via GC)
Thermo Scientific – TRACE 1300 Series	Gas Chromatography	GC Auxiliary	Auxiliary Carrier Module	(via GC)
Thermo Scientific – TRACE 1300 Series	Gas Chromatography	GC Auxiliary	Auxiliary Gas Module for TRACE 1300E	(via GC)
Thermo Scientific – TRACE 1300 Series	Gas Chromatography	GC Auxiliary	Auxiliary Temperature Module	(via GC)
Thermo Scientific – TRACE 1600 Series GC	Gas Chromatography			
Thermo Scientific – TRACE 1600 Series GC	Gas Chromatography	GC Main	TRACE1360 / 1610	LAN
Thermo Scientific – TRACE 1600 Series GC	Gas Chromatography	GC Oven	TRACE1300 / 1310	(via GC)
Thermo Scientific – TRACE 1600 Series GC	Gas Chromatography	GC Auxiliary	Auxiliary Oven	(via GC)
Thermo Scientific – TRACE 1600 Series GC	Gas Chromatography	GC Inlet	Split/Splitless with and without backflush	(via GC)
Thermo Scientific – TRACE 1600 Series GC	Gas Chromatography	GC Inlet	Helium Saver Split/Splitless inlet	(via GC)
Thermo Scientific – TRACE 1600 Series GC	Gas Chromatography	GC Inlet	GSV Split/Splitless inlet	(via GC)

System/Family	Category	Type	Model	Interface Type
Thermo Scientific – TRACE 1600 Series GC	Gas Chromatography	GC Inlet	Programmable Temperature Vaporization (PTV) with and without backflush	(via GC)
Thermo Scientific – TRACE 1600 Series GC	Gas Chromatography	GC Detector	Flame Ionization Detector (FID)	(via GC)
Thermo Scientific – TRACE 1600 Series GC	Gas Chromatography	GC Detector	Thermal Conductivity Detector (TCD)	(via GC)
Thermo Scientific – TRACE 1600 Series GC	Gas Chromatography	GC Detector	Nitrogen Phosphorus Detector (NPD)	(via GC)
Thermo Scientific – TRACE 1600 Series GC	Gas Chromatography	GC Detector	Electron Capture Detector (ECD)	(via GC)
Thermo Scientific – TRACE 1600 Series GC	Gas Chromatography	GC Detector	Flame Photometric Detector (FPD)	(via GC)
Thermo Scientific – TRACE 1600 Series GC	Gas Chromatography	GC Detector	Pulse Discharge Detector (PDD)	(via GC)
Thermo Scientific – TRACE 1600 Series GC	Gas Chromatography	GC Detector	Generic Detector Interface (GDI)	(via GC)
Thermo Scientific – TRACE 1600 Series GC	Gas Chromatography	GC Auxiliary	Auxiliary Carrier Module	(via GC)
Thermo Scientific – TRACE 1600 Series GC	Gas Chromatography	GC Auxiliary	Auxiliary Temperature Module	(via GC)
Thermo Scientific – I/AS1310	Gas Chromatography	GC Autosampler	AS1310, AI1310	RS232
Thermo Scientific – I/AS1310	Gas Chromatography	GC Autosampler	AS1310, AI1310	RS232
Thermo Scientific – I/AS1310	Gas Chromatography	GC Autosampler	AS1310, AI1310	RS232

System/Family	Category	Type	Model	Interface Type
Thermo Scientific – I/AS1610	Gas Chromatography	GC Autosampler	AS1610, AI1610	RS232
Thermo Scientific – I/AS1610	Gas Chromatography	GC Autosampler	AS1610, AI1610	RS232
Thermo Scientific – I/AS1610	Gas Chromatography	GC Autosampler	AS1610, AI1610	RS232
Thermo Scientific – TriPlus RSH	Gas Chromatography	GC Autosampler	TriPlus RSH	LAN
Thermo Scientific – TriPlus RSH	Gas Chromatography	GC Autosampler	TriPlus RSH	LAN
Thermo Scientific – TriPlus RSH	Gas Chromatography	GC Autosampler	TriPlus RSH	LAN
Thermo Scientific – TriPlus RSH	Gas Chromatography	GC Autosampler	TriPlus RSH	LAN
Thermo Scientific – TriPlus RSH	Gas Chromatography	GC Autosampler	TriPlus RSH	LAN
Thermo Scientific – TriPlus RSH	Gas Chromatography	GC Autosampler	TriPlus RSH	LAN
Thermo Scientific – TriPlus 100 LS	Gas Chromatography	GC Liquid Autosampler	TriPlus 100 LS	LAN
Thermo Scientific – TriPlus 100 LS	Gas Chromatography	GC Liquid Autosampler	TriPlus 100 LS	LAN
Thermo Scientific – TriPlus 100 LS	Gas Chromatography	GC Liquid Autosampler	TriPlus 100 LS	LAN
Thermo Scientific – TriPlus 100 LS	Gas Chromatography	GC Liquid Autosampler	TriPlus 100 LS	LAN
Thermo Scientific – TriPlus 500 HS	Gas Chromatography	GC Headspace Autosampler	TriPlus 500 HS	LAN

- [1] ICS-5000 is assumed to be compatible, but has not explicitly been tested.
- [2] Assumed to be compatible due to shared driver with VF-D50-A, but has not explicitly been tested.
- [3] All variants in model series are assumed to be compatible, but not every variant has been explicitly tested against SII for Xcalibur.
- [4] Advanced functionality such as fraction collection are not supported.
- [5] Supported only as part of Vanquish Neo system and not as individual module.

4 Third Party LC Modules supported by SII for Xcalibur 1.8

System/Family	Category	Type	Model	Interface Type
Waters – ACQUITY H-Class [6]	Pump	Quaternary Solvent Manager	–	LAN
Waters – ACQUITY H-Class [6]	LC Autosampler	Sample Manager (FTN)	–	LAN
Waters – ACQUITY I-Class [6]	Pump	Binary Solvent Manager	–	LAN
Waters – ACQUITY I-Class [6]	LC Autosampler	Sample Manager (FTN)	–	LAN
Waters – ACQUITY I-Class [6]	LC Autosampler	Sample Manager (FL)	–	LAN
Waters - ACQUITY classic [6]	Pump	Binary Solvent Manager P/N 186015001	–	LAN
Waters - ACQUITY classic [6]	LC Autosampler	Sample Manager (contains column compartment) P/N 186015005	–	LAN
Waters - ACQUITY classic [6]	Sample Organizer	Sample Organizer P/N 186015020	–	LAN
Waters - ACQUITY classic [6]	Detector	PDA Detector P/N 186015026	–	LAN
Agilent	Agilent Technologies Driver	11XX and 12XX modules [7]	–	LAN
Shimadzu	Shimadzu Driver for Chromeleon 7.2 V 3.0	See <i>Shimadzu Release Notes</i> document attached with the driver for a complete list of supported HPLC modules.	–	

[6] ACQUITY Framework based driver, available from Waters. Contact your local Waters representative to obtain Waters Driver Packs and corresponding Waters Support Layers.

[7] All 11XX and 12XX modules listed in *Release Notes Agilent Drivers for Chromeleon7* document are assumed compatible but not all have been explicitly tested. Compatible with Windows 7 and Windows 10. Installation completes during first access to the method editor and requires Windows Administration privileges.