

#### Agilent 8890 Features to Improve Lab Productivity

Jamie Wetuski Product Support 22 November 2022







## Communicating With Your GC





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#### Touch screen

#### Agilent software





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#### **Touch Screen Home**







#### **Touch Screen Method**







## Touch Screen Method, Continued



	Method	Sequ	uence	Diagnostics	Maintenance	Logs	٤	?
ALS/Tray				Column 1		Colu	mn 3	
Valves			Cont	trol Mode				
Inlets		_	Mod	le	Constant Flow		$\sim$	
Columns	1				Setpoint	Actu	ıal	$\wedge$
Oven				Flow	5 876 ml /min	5 876 m	I /min	
Detector	S				5.070 m2/mm	5.67011	2/11111	
Analog C	ut			Pressure	21.461 psi	21.461	L psi	
Events			Avg.	. Velocity	72.234 cm/sec			
			Hold	dup Time	0.692 min			$\sim$
		_						



## Touch Screen Sequence

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	Method	Sequ	ience	Diagnostics		Maintenance	e	Logs 1	ŝ	?
ALS/Tray	1					Eve	nts			
Valves			Run	Events Table						
Inlets			Ti	me	Ever	nt	Positi	ion	Setpoint	
Columns	5								·	
Oven										
Detector	s									
Analog C	)ut									
Events										
			Add E	Event			Remove	Event		





## **Touch Screen Diagnostics**



Metho	d Sequence Diag	nostics 2 Mai	ntenance	Logs 1	?
Sequence Name:	Front_BackFID	$\sim$	Run	Pause Resume	Abort
Line	Sample Name	Vial Number	No. of Injections	Method	
1	Front FID	1	1	Front_SSL_	FID
2	Back FID	1	1	Back_SSL_	FID



## **Gas Identification Test**



< Diagnostic Tests	Inlets Diagnostic Tests		?
Front Inlet - S/SL		Back Inlet - S/SL	
Gas Identification Test			
Gas Supply Pressure Check			
Leak and Restriction Test			
Pressure Decay Test			
Septum Purge Test			
Split Vent Restriction Test			
			_



## Gas Supply Pressure Check



< Diagnostic Tests	Inlets Diagnostic Tests		?
Front Inlet - S/SL		Back Inlet - S/SL	
Gas Identification Test			
Gas Supply Pressure Check			
Leak and Restriction Test			
Pressure Decay Test			
Septum Purge Test			
Split Vent Restriction Test			



#### Leak and Restriction Test

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< Diagnostic Tests	Inlets Diagnostic Tests		?
Front Inlet - S/SL		Back Inlet - S/SL	
Gas Identification Test			
Gas Supply Pressure Check			
Leak and Restriction Test			
Pressure Decay Test			
Septum Purge Test			
Split Vent Restriction Test			
			_



## **Pressure Decay Test**

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< Diagnostic Tests	Inlets Diagnostic Tests		?
Front Inlet - S/SL		Back Inlet - S/SL	
Gas Identification Test			
Gas Supply Pressure Check			
Leak and Restriction Test			
Pressure Decay Test			
Septum Purge Test			
Split Vent Restriction Test			



# Septum Purge Test



< Diagnostic Tests	Inlets Diagnostic Tests		?
Front Inlet - S/SL		Back Inlet - S/SL	
Gas Identification Test			
Gas Supply Pressure Check			
Leak and Restriction Test			
Pressure Decay Test			
Septum Purge Test			
Split Vent Restriction Test			
			_



## **Split Vent Restriction Test**



< Diagnostic Tests	Inlets Diagnostic Tests		?
Front Inlet - S/SL		Back Inlet - S/SL	
Gas Identification Test			
Gas Supply Pressure Check			
Leak and Restriction Test			
Pressure Decay Test			
Septum Purge Test			
Split Vent Restriction Test			



## **Split Vent Restriction Test**

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Back Inlet : Split Vent Res	Close	Cancel	?	
Gas Supply Split Vent Column	<b>State</b> Time Remaining Inlet Pressure Target . Inlet Pressure Actual	<b>In Progress</b> 0 seconds 12.661 psi 12.664 psi		
	Verify Basic Control			
	50% Complete			



## **Touch Screen Diagnostics**

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< Diagnostic Tests	Inlets Diagnostic Tests		?
Front Inlet - S/SL		Back Inlet - S/SL	
Gas Identification Test			
Gas Supply Pressure Check			
Leak and Restriction Test			
Pressure Decay Test			
Septum Purge Test			
Split Vent Restriction Test			





## Troubleshooting

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< Diagnostics	Trout	oleshooting Report	Start Troubleshooting	?
Issue Date	Issue Name	Issue resolution accepted	Diagnosis	
Wed 19 Oct 2022 09:47:05 AM	No Peaks	Cancelled		
Wed 19 Oct 2022 09:44:44 AM		Cancelled		
Wed 19 Oct 2022 09:10:55 AM		Cancelled		
Wed 19 Oct 2022 09:09:34 AM		Cancelled		
Wed 19 Oct 2022 09:06:42 AM		Cancelled		
Wed 19 Oct 2022 09:06:18 AM		Cancelled		$\sim$
Mon 29 Aug 2022 03:05:49 PM		Cancelled		



## **Diagnostics Gas and Power Usage**



	Method	Sequence	Diagnostics		Maintenance		Logs	<b>(</b> )	?	
	Warnings and Errors Detector Evaluation Troubles			Diagnostic Tests Blank Evaluation			System Health Report			
							Peak Evaluation			
				eshooting Gas and Po		ower l	Jsage			
STATUS: WAITING FOR PREP RUN										
Sequence	e	Method		Sample	E	Est. Rer <b>5.50</b>	maining			



## **Touch Screen Maintenance**

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#### **Touch Screen Inlet Maintenance**

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< Overview	Inlets Maintenance	Perform Maintenance	?
Fron	t Inlet - SS	Back Inlet - SS	
Part	Status	Reset All	
🤣 Gold seal age	2 mth 4 days		
🤣 Gold seal injection	s 6 injections		$\sim$
🤣 Liner age	11 min 26 sec		
Liner injections	0 injections		$\sim$
STATUS: NOT READY	^		2
Sequence N	Nethod Sample	Est. Remaining Defined for the second	





#### **Maintenance Counter**

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< Overview	Inlets Maintenance	Perform Maintenance	?
Front	Inlet - SS	Back Inlet - SS	
Part	Status	Reset All	
🤣 Gold seal age	2 mth 4 days		
Gold seal injections	6 injections		$\sim$
Liner age	28 min 56 sec		
Liner injections	0 injections		$\checkmark$
STATUS: NOT READY	^		8
Sequence Me	thod Sample	Est. Remaining D	



#### Maintenance Counter Column









#### Maintenance Column Key







 November 22, 2022
 8890 Features FW 2.5.0.258
 DE12851078

#### Maintenance Column Key





#### **Maintenance Detector**



	Method	Sequence	Diagnostics	Maintenance	e Logs	<b></b>	?	
					View Lo	ogs Install	Column	
		ALS	Va	<b>I</b> lves	Inlets	5		
	Columns		Det	ectors	Instrument			
STATUS	WAITING		IN				$\bigcirc$	
Sequence		Method	Sample		Est. Remaining <b>6.50</b>			





#### **Detector Diagnostic**



	Method	Sequence	Diagnostics	Maintenance	Logs 1	٤	?	
					View Log	gs Install	Column	
		ALS	Val	ves	Inlets	0		
	Columns		Dete	ctors	Instrument			
CTATUS	WAITING		111					
STATUS:	WAITING	FOR PREP R					S.	
Sequence	2	Method	Sample	E	Est. Remaining (			



#### **Touch Screen Logs**

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< Overview	Detectors Maintenance	Perform Maintenance	?
Front Detector - FID	Back Detector - FID	Aux Detector 2 - TCD	
Part	Status	Res	set All
Collector assembly injection	ctions 5 injections		
Ignitor ignitions	21 ignitions		
Jet injections	5 injections		
STATUS: NOT READY	^		8
Sequence Metho	d Sample	Est. Remaining 6.50	



#### **Touch Screen Settings**



	Method	Sequence	Dia	gnostics	Maintenance	Logs	Ę	₹ <b>•</b> 3	?
	Maintenance Log			Run Log		System Log			
	Seque			nce Log Run History Log					
							-		
STATUS	WAITING	FOR PREP R	UN		^				8
Sequence	e	Method		Sample	E	est. Remaining 5.50			



#### Touch Screen Settings, Continued



	Method	Sequence	Diag	gnostics	Maintenanc	e	Logs	£3	?		
	Configuration			Calibration			Scheduler				
	System Settings			Service Mode			Power				
				About							
STATUS: WAITING FOR PREP RUN			JN	^					2		
Sequence	e	Method		Sample		Est. Rei <b>6.50</b>	maining				



#### **Touch Screen Help**



	Method	Sequence	Dia	gnostics	Maintenanc	e	Logs	<b>ن</b> ې	?
	Configuration		Calibr						
	System Settings			Service Mode			Power		
			About					,	
STATUS	: WAITING	FOR PREP RU	JN	1	×				2
Sequenc	e	Method		Sample		Est. Re <b>6.50</b>	maining		





#### **Browser Interface**







#### **Browser Interface, Continued**







#### **Browser Interface, Continued**





#### Firmware

Firmware on www.agilent.com

Download the latest firmware update tool today!





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## **Contact Agilent Chemistries and Supplies Technical Support**



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Option 1 for GC and GC/MS columns and supplies Option 2 for LC and LC/MS columns and supplies Option 3 for sample preparation, filtration, and QuEChERS Option 4 for spectroscopy supplies Option 5 for chemical standards Available in the USA and Canada 8–5, all time zones



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