

Time	Parameter	Setting
	Sampler. Acquire Exclusive Access	
	Flush	Volume =1000
	Wait	Flush State
	Pressure. Lower Limit =	200 [psi]
	Pressure. Upper Limit =	3000 [psi]
	%A. Equate =	"%A"
	CR_TC =	On
	Needle Height =	0 [mm]
	Cut Segment Volume =	0 [μL]
	Syringe Speed =	4
	Cycle Time =	0 [min]
	Wait for Temperature =	FALSE
	Data_Collection_Rate =	5.0 [Hz]
	Cell Temperature. Nominal =	35.0 [°C]
	Column Temperature.Nominal =	30.0 [°C]
	Suppressor_Type =	ASRS_4mm
	; Pump_ECD.Recommended Current =	127
	; Pump_ECD.Hydroxide =	54
	; Pump_ECD.Carbonate =	0
	; Pump_ECD.Bicarbonate =	0
	; Pump_ECD.Tetraborate =	0
	; Pump_ECD.Other eluent =	0
	Suppressor_Current =	135 [mA]
	ECD_Total.Step =	0.20 [s]
	ECD_Total.Average =	Off
	Channel_Pressure.Step =	0.20 [s]
	Channel_Pressure.Average =	Off
	Wait	Sample Ready
	Flow =	0.95 [ml/min]
0	Autozero	
	Concentration =	12.00 [mM]
	Curve =	5
	Load	
	Wait	Cycle Time State
	Inject	
	Wait	Inject State

	ECD_1.AcqOn	
	ECD_Total.AcqOn	
	Channel_Pressure.AcqOn	
	Pump_InjectValve.State	Inject Position
	Sampler.ReleaseExclusiveAccess	
	Concentration =	12.00 [mM]
	Curve =	5
0.5	Pump_InjectValve.State	Load Position
2	Concentration =	30.00 [mM]
	Curve =	5
4	Concentration =	30.00 [mM]
	Curve =	5
7	Concentration =	54.00 [mM]
	Curve =	5
12	Concentration =	54.00 [mM]
	Curve =	5
	Concentration =	12.00 [mM]
	Curve =	5
17	;ECD_1.AcqOff	
	;ECD_Total.AcqOff	
	;Channel_Pressure.AcqOff	
20	Concentration =	12.00 [mM]
	Curve =	5
22	ECD_1.AcqOff	
	ECD_Total.AcqOff	
	Channel_Pressure.AcqOff	
	End	

Supplemental Table 1: Program Parameters for sulfate quantitation on the Dionex ICS2000.