method: C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Modified on: 11/30/2011 at 10:31:28 AM

Method Information

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Hydrogen analysis method

Injection Source and Location

Injection Source: Manual

Injection Location: Dual

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6890 GC METHOD

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OVEN
Initial temp: 33 'C (On)
Initial time: 4.50 min
Maximum temp: 350 'C
Equilibration time: 0.10 min
Ramps:

#	Rate	Final temp	Final time
1	0.0(Off)		

Post temp: 33 'C
Post time: 0.00 min
Run time: 4.50 min

FRONT INLET (SPLIT/SPLITLESS)
Mode: Split
Initial temp: 150 'C (On)
Pressure: 8.81 psi (On)
Split ratio: 9.98:1
Split flow: 25.2 mL/min
Total flow: 30.3 mL/min
Gas saver: Off
Gas type: Argon methane 5%

BACK INLET (SPLIT/SPLITLESS)
Mode: Split
Initial temp: 150 'C (On)
Pressure: 7.24 psi (On)
Split ratio: 10:1
Split flow: 15.2 mL/min
Total flow: 19.6 mL/min
Gas saver: Off
Gas type: Helium

COLUMN 1
Capillary Column
Model Number: Agilent 19091P-MS3
HP-PLOT MoleSieve 5A
Max temperature: 350 'C
Nominal length: 15.0 m

COLUMN 2
Capillary Column
Model Number: J&W 113-3132
Carbon Plot
Max temperature: 360 'C
Nominal length: 30.0 m

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Nominal diameter: 320.00 um
Nominal film thickness: 12.00 um
Mode: constant pressure
Pressure: 8.81 psi
Nominal initial flow: 2.5 mL/min
Average velocity: 47 cm/sec
Inlet: Front Inlet
Outlet: Front Detector
Outlet pressure: ambient

Nominal diameter: 320.00 um
Nominal film thickness: 1.50 um
Mode: constant pressure
Pressure: 7.24 psi
Nominal initial flow: 1.5 mL/min
Average velocity: 26 cm/sec
Inlet: Back Inlet
Outlet: Back Detector
Outlet pressure: ambient

FRONT DETECTOR (TCD)
Temperature: 180 'C (On)
Reference flow: 35.0 mL/min (On)
Mode: Constant makeup flow
Makeup flow: 2.0 mL/min (On)
Makeup Gas Type: Helium
Filament: On
Negative polarity: On

BACK DETECTOR (TCD)
Temperature: 180 'C (On)
Reference flow: 20.0 mL/min (On)
Mode: Constant makeup flow
Makeup flow: 2.0 mL/min (On)
Makeup Gas Type: Helium
Filament: On
Negative polarity: Off

SIGNAL 1
Data rate: 20 Hz
Type: front detector
Save Data: On
Zero: 0.0 (Off)
Range: 0
Fast Peaks: Off
Attenuation: 0

SIGNAL 2
Data rate: 20 Hz
Type: back detector
Save Data: On
Zero: 0.0 (Off)
Range: 0
Fast Peaks: Off
Attenuation: 0

COLUMN COMP 1
Derive from front detector

COLUMN COMP 2
Derive from back detector

THERMAL AUX 1
Use: Valve Box Heater
Description:
Initial temp: 150 'C (On)
Initial time: 0.00 min

#	Rate	Final temp	Final time
1	0.0(Off)		

VALVES
Valve 1 Switching Off
Description:
Valve 2 Switching Off
Description:

POST RUN
Post Time: 0.00 min

TIME TABLE

Time	Specifier	Parameter & Setpoint
0.00	Valve 1:	On
0.00	Valve 2:	On
1.50	Valve 1:	Off
1.50	Valve 2:	Off

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Integration Events

Non signal specific Integration Events

Event	Value
Tangent Skim Mode	Standard
Tail Peak Skim Height Ratio	0.000
Front Peak Skim Height Ratio	0.000
Skim Valley Ratio	20.000
Baseline Correction	Classical
Peak to Valley Ratio	500.000

Default Integration Event Table "Event"

Event	Value	Time
Initial Slope Sensitivity	1.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.700	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_ADC"

Event	Value	Time
Initial Slope Sensitivity	20.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FID"

Event	Value	Time
Initial Slope Sensitivity	50.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

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Detector Default Integration Event Table "Event_ECD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_NPD"

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_FPD"

Event	Value	Time
Initial Slope Sensitivity	50.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_uECD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Detector Default Integration Event Table "Event_TCD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Apply Manual Integration Events: No

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Calibration Table

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Calib. Data Modified : Wednesday, November 30, 2011 10:30:55 AM

Calculate : External Standard
Based on : Peak Area

Rel. Reference Window : 5.000 %
Abs. Reference Window : 0.000 min
Rel. Non-ref. Window : 5.000 %
Abs. Non-ref. Window : 0.180 min
Do not use Multiplier & Dilution Factor with ISTDs
Uncalibrated peaks RF : 1.00000
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: TCD1 A,

RetTime [min]	Lvl Sig		Amount [%]	Area	Amt/Area	Ref	Grp	Name
1.040	1	1	1.00000e-1	44.14121	2.26546e-3			Hydrogen
		2	1.00000	436.92639	2.28872e-3			
		3	2.46000	1078.37170	2.28122e-3			
		4	4.99000	2208.71118	2.25924e-3			
		5	10.01000	4416.39502	2.26655e-3			
		6	19.98000	8743.15234	2.28522e-3			

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Peak Sum Table

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No Entries in table

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