



Qubit Systems, Inc
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Date of Service: **9/25/2012**
 Lab File:
 Temp: **0°C**
 Pressure: **0mmHg**
 BTPS: **0.000**

Name: **William D. Roberts** MR#: **008** Sex: **M** DOB: **12/19/1954** Age: **57** Race: **W**
 Height: **190 cm** Weight: **100.4 Kg** BMI: **27.8** Study ID: **1:**
 Technologist: **Thomas Fallon**
 Faculty Member: **Colin D. Chapman, M.D.**

ATS compliant tests are indicated by a **✓**: FVC

Smoker: N	Pack years: N/A
Last Tobacco Use (hours) N/A	

Cardiopulmonary Exercise Summary

Spirometry	Predicted	Measured	% Predicted
FVC (L)	5.55	7.76	140
FEV1 (L)	4.25	5.07	119
MVV (L)	148.8	196.2	132

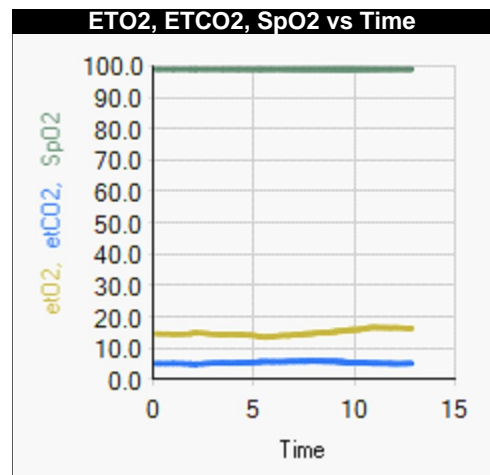
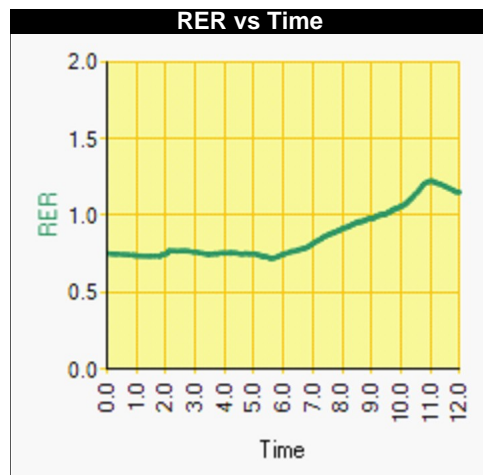
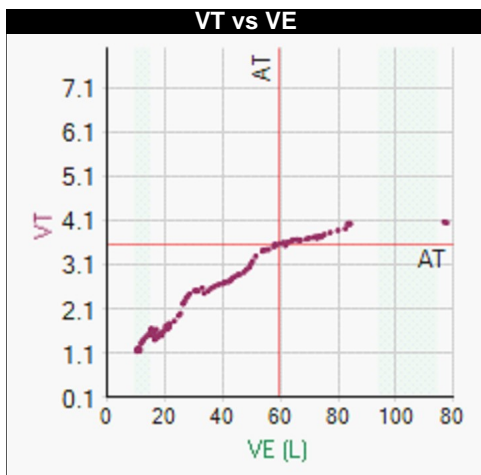
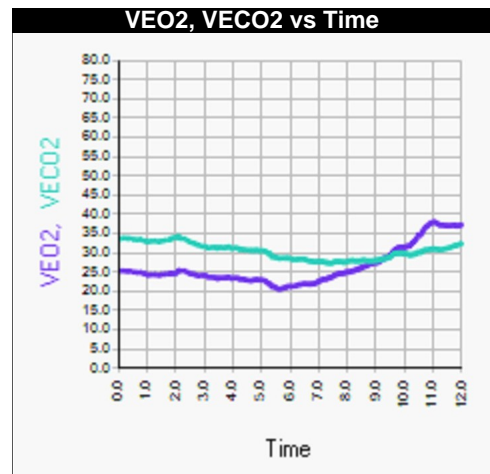
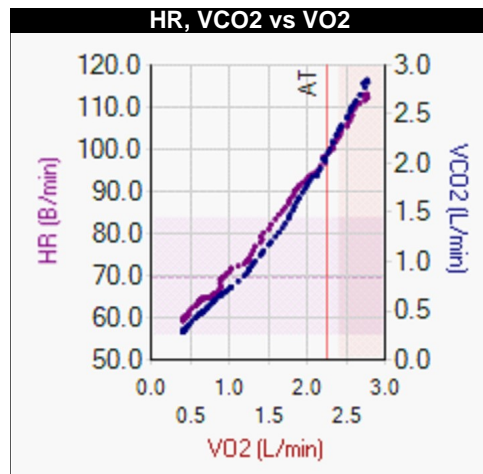
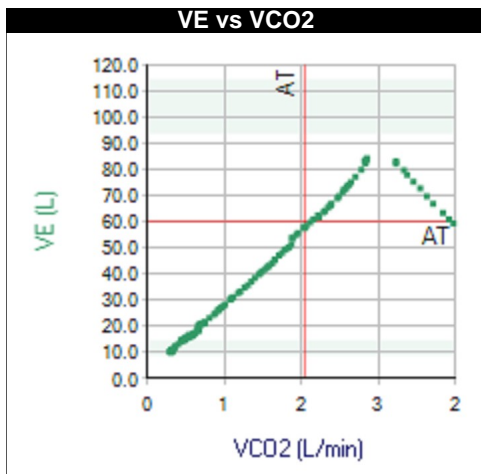
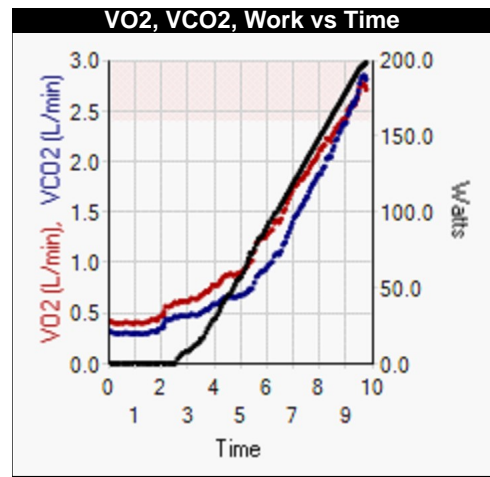
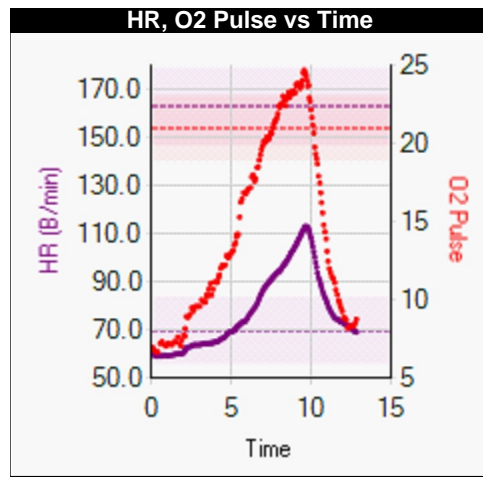
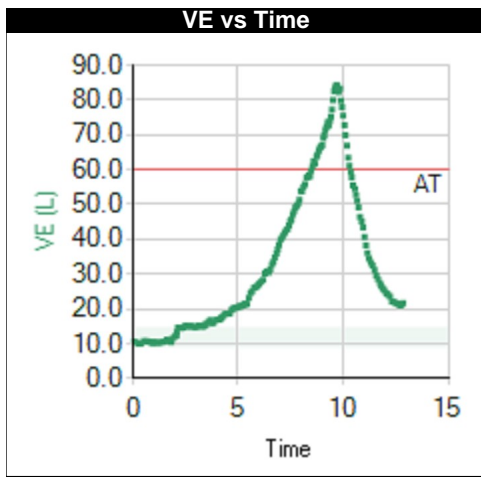
Resting Data HR (bpm) **60** SpO2 (%) ---- SPB (mmHg) **122** DPB (mmHg) **93**

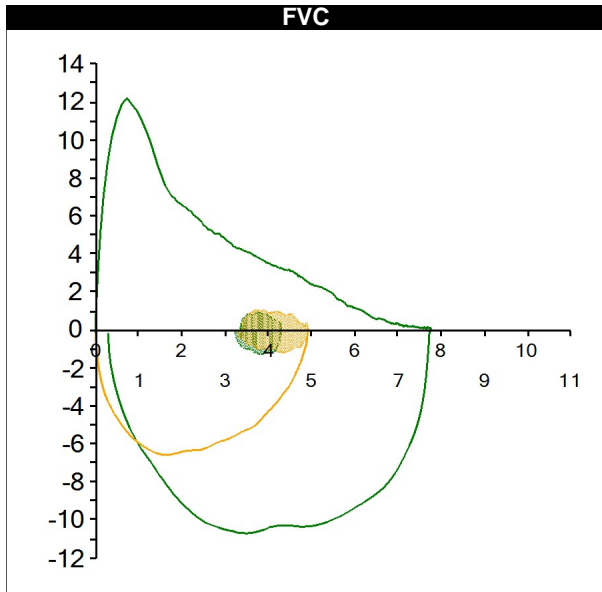
Exercise Duration: 6.83 Min Perceived Exertion (Borg): **5 - Hard**

Peak Cardiovascular Responses	Predicted	Measured	% Predicted
<i>Parameter</i>	<i>Units</i>		
VO2	(ml/kg/min)	33.59	29.7 88
VO2	(L/min)	3.00	2.98 99
VCO2	(L/min)		3.08
Work	(Watts)	250	202 81
Anaerobic Threshold (AT)	(L/min)	> 0.00	2.25
AT (% Predicted Max VO2)	(L/min)	> 138%	75
Heart Rate	(bpm)	163	114 70
O2 Pulse	(mL/beat)	20.98	26.0 124
Systolic Blood Pressure (Max)	(mmHg)	----	----
Diastolic Blood Pressure (Max)	(mmHg)	85-105	----
Heart Rate Reserve	(bpm)	<15	50

Peak Ventilatory Responses	Predicted	Measured	% Predicted
VE Max	(L/min BTPS)	104.2	92.1 88
Tidal Volume (VT)	(L)	----	3.97
Respiratory Rate (RR)	(Breaths/min)	<50	23
Breathing Reserve	(%)	20-40	110

Gas-Exchange Responses	Predicted	Measured	% Predicted
End Tidal CO2 (Peak PetCO2)	(%)		5.48
End Tidal O2 (Peak PetO2)	(%)		15.92
VE/VO2 @ AT			27
VE/VCO2 @ AT			28
VD/VT (Est) @ Rest	0.30	----	
VD/VT (Est) Peak	0.18	----	
Respiratory Quotient (RQ) (Peak)	1.1-1.3	1.03	
SpO2 (O2 Sat-Pulse Ox) @ Peak		----	





<i>Ventilation Kinetics</i>	VT (L)	IC (L)	FVC (L)
Baseline FV	---	4.29	7.76
Exercise FV Effort 1	1.62	4.91	---
Exercise FV Effort 2	3.53	5.15	---

Technologist Comments:
 Technician notes are entered here.....

Preliminary Description
 Moderate obesity may contribute to decreased exercise capacity. Aerobic capacity is normal. Anaerobic (ventilatory) threshold suggests normal cardiovascular conditioning. The 41 bpm reduction in heart rate at 2 minutes post-exercise indicates normal heart rate recovery. Normal breathing reserve indicates chest bellows capacity is not limiting. No significant oxygen desaturation is noted during exercise.