

PHYSICS 1030L LAB DATA SHEET FOR RESONANCE TUBE LAB

Frequency of Tuning fork #1 in (Hz)	Position of first resonance point OA(m)	Position of second resonance point OB(m)	Average value for OA(m) And STD DEV(m)	Average value for OB And STD DEV(m)	Average value for $\lambda/2$ (m)	Average value for λ (m)	$\sigma(\lambda/2_{avg})$ (m)	Velocity of Sound For First Tuning fork(m/s)	STD DEV Velocity (m/s)
Trial 1									
Trial 2									
Trial 3									
Trial 4									
Frequency of Tuning fork #2 in (Hz)	Position of first resonance point OA	Position of second resonance point OB	Average value for OA And STD DEV(m)	Average value for OB And STD DEV(m)	Average value for $\lambda/2$	Average value for λ (m)	$\sigma(\lambda/2_{avg})$ (m)	Velocity of Sound For 2 nd Tuning fork(m/s)	STD DEV Velocity (m/s)
Trial 1									
Trial 2									
Trial 3									
Trial 4									
Frequency of Tuning fork #3 in (Hz)	Position of first resonance point OA	Position of second resonance point OB	Average value for OA And STD DEV(m)	Average value for OB And STD DEV(m)	Average value for $\lambda/2$	Average value for λ (m)	$\sigma(\lambda/2_{avg})$ (m)	Velocity of Sound For 3 rd Tuning fork(m/s)	STD DEV Velocity (m/s)
Trial 1									
Trial 2									
Trial 3									
Trial 4									
Frequency of Tuning fork #4 in (Hz)	Position of first resonance point OA	Position of second resonance point OB	Average value for OA And STD DEV(m)	Average value for OB And STD DEV(m)	Average value for $\lambda/2$	Average value for λ (m)	$\sigma(\lambda/2_{avg})$ (m)	Velocity of Sound For 3 rd Tuning fork(m/s_	STD DEV Velocity (m/s)
Trial 1									
Trial 2									
Trial 3									
Trial 4									

Average Velocity of Sound from the 4 tuning forks _____(m/s)

Standard Deviation of the speed of sound obtained from the 4 tuning forks _____(m/s)

Note: Calculate the standard deviation using the range method.

Room Temperature at start of lab _____(K)

Room Temperature at end of lab _____(K)

Average Room Temperature _____(K)