Driver Make and Model: _____

1.7.7 Parameter Measurement Summary Sheet

Test Perfo	ormed By:	Date:
Voice-Coil	l Resistance: $R_E =$	Piston Radius: $a = $
Off Box R	Resonance Frequency: $f_S =$	On Box: $f_{CT} =$
Off Box at	t Resonance: $V_B/V_A =$	On Box: $V_B/V_A =$
Off Box:	$R_E + R_{ES} = R_S \times V_B / V_A = _$	$ On Box: R_E + R_{ECT} =$
Off Box:	$R_1 = \sqrt{R_E(R_E + R_{ES})} = _$	On Box: $R_1 =$
Off Box:	$V_B = V_A \times \frac{R_1}{R_S} = \underline{\qquad}$	On Box: $V_B =$
Off Box:	$f_1 =$	On Box: $f_1 = $
Off Box:	$f_2 =$	On Box: $f_2 = $
Off Box:	$f_{ m check} = \sqrt{f_1 f_2} =$	On Box: $f_{\text{check}} =$
Off Box:	$Q_{MS} = \frac{f_S}{f_2 - f_1} \sqrt{\frac{R_E + R_{ES}}{R_E}} =$	On Box: $Q_{MCT} =$
Off Box:	$Q_{ES} = \frac{R_E}{R_{ES}} Q_{MS} = _$	On Box: $Q_{ECT} =$
Off Box:	$Q_{TS} = \frac{R_E}{R_E + R_{ES}} Q_{MS} = _$	On Box: $Q_{TCT} =$
Test Box	Volume: $V_T = $ V	$V_{AS} = V_T \left[\frac{f_{CT}}{f_S} \frac{Q_{ECT}}{Q_{ES}} - 1 \right] = \underline{\qquad}$
Mass Correction Factor: $k_M = \sqrt{1 + 10.65 \frac{f_S^2 V_{AS}}{c^2 a}} = $		
$\frac{f_S}{k_M} = \underline{\qquad} \qquad $		
$Q_{ES} \times k_M = \underline{\qquad} \qquad Q_{TS} \times k_M = \underline{\qquad}$		
Efficiency: $\eta_0 = \frac{4\pi^2}{c^3} \frac{f_S^3 V_{AS}}{Q_{ES}} = $		
Voice-Coil Inductance: $C = \underline{\qquad} f = \underline{\qquad} R_e = \left(R_S \times \frac{V_b}{V_a} - R_E\right) = \underline{\qquad}$		
$X_{e} = \frac{1}{2\pi f} = \underline{\qquad} n = \frac{1}{90} \arctan\left[\frac{X_{e}}{R_{e}}\right] = \underline{\qquad} L_{e} = \frac{\sqrt{R_{e}^{2} + X_{e}^{2}}}{(2\pi f)^{n}} = \underline{\qquad}$		