

\* This data was exported from the Dayton Audio Test System: DATS

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\* Piston Diameter = 0 mm

\* f(s)= 1382 Hz

\* R(e)= 4.839 Ohms

\* Z(max)= 5.689 Ohms

\* Q(ms)= 3.955

\* Q(es)= 22.51

\* Q(ts)= 3.364

\* V(as)= 0 liters (0 cubic feet)

\* L(e)= 0.238 mH

\* n(0)= 0 %

\* SPL= 0 1W/1m

\* M(ms)= 0 grams

\* C(ms)= 0 mm/N

\* BL= 0

\* K(r)= 5.387

\* X(r)= -0.009373

\* K(i)= 0

\* X(i)= 5.666

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\*

| Freq  | Impedance | Phase  |
|-------|-----------|--------|
| 1.029 | 5.085     | -2.314 |
| 1.059 | 5.085     | -2.314 |
| 1.091 | 5.085     | -2.314 |
| 1.122 | 5.085     | -2.314 |
| 1.155 | 5.085     | -2.314 |
| 1.189 | 5.085     | -2.314 |
| 1.224 | 5.085     | -2.314 |
| 1.260 | 5.085     | -2.314 |
| 1.297 | 5.085     | -2.314 |
| 1.335 | 4.906     | -0.714 |
| 1.374 | 4.906     | -0.714 |
| 1.414 | 4.906     | -0.714 |
| 1.456 | 4.906     | -0.714 |
| 1.498 | 4.906     | -0.714 |
| 1.542 | 4.906     | -0.714 |
| 1.587 | 4.906     | -0.714 |
| 1.634 | 4.906     | -0.714 |
| 1.682 | 4.906     | -0.714 |
| 1.731 | 4.906     | -0.714 |
| 1.782 | 4.906     | -0.714 |
| 1.834 | 4.906     | -0.714 |
| 1.888 | 4.906     | -0.714 |
| 1.943 | 4.906     | -0.714 |
| 2.000 | 4.818     | 0.103  |
| 2.059 | 4.818     | 0.103  |
| 2.119 | 4.818     | 0.103  |
| 2.181 | 4.818     | 0.103  |

|       |       |        |
|-------|-------|--------|
| 2.245 | 4.818 | 0.103  |
| 2.311 | 4.818 | 0.103  |
| 2.378 | 4.818 | 0.103  |
| 2.448 | 4.818 | 0.103  |
| 2.520 | 4.818 | 0.103  |
| 2.594 | 4.818 | 0.103  |
| 2.670 | 4.847 | -0.131 |
| 2.748 | 4.847 | -0.131 |
| 2.828 | 4.847 | -0.131 |
| 2.911 | 4.847 | -0.131 |
| 2.997 | 4.847 | -0.131 |
| 3.084 | 4.847 | -0.131 |
| 3.175 | 4.847 | -0.131 |
| 3.268 | 4.847 | -0.131 |
| 3.364 | 4.838 | 0.024  |
| 3.462 | 4.838 | 0.024  |
| 3.564 | 4.838 | 0.024  |
| 3.668 | 4.838 | 0.024  |
| 3.775 | 4.838 | 0.024  |
| 3.886 | 4.838 | 0.024  |
| 4.000 | 4.847 | -0.103 |
| 4.117 | 4.847 | -0.103 |
| 4.238 | 4.847 | -0.103 |
| 4.362 | 4.847 | -0.103 |
| 4.490 | 4.847 | -0.103 |
| 4.621 | 4.847 | -0.103 |
| 4.757 | 4.845 | 0.030  |
| 4.896 | 4.845 | 0.030  |
| 5.040 | 4.845 | 0.030  |
| 5.187 | 4.845 | 0.030  |
| 5.339 | 4.848 | -0.068 |
| 5.496 | 4.848 | -0.068 |
| 5.657 | 4.848 | -0.068 |
| 5.823 | 4.848 | -0.068 |
| 5.993 | 4.847 | 0.075  |
| 6.169 | 4.847 | 0.075  |
| 6.350 | 4.847 | 0.075  |
| 6.536 | 4.847 | 0.075  |
| 6.727 | 4.850 | -0.001 |
| 6.924 | 4.850 | -0.001 |
| 7.127 | 4.850 | -0.001 |
| 7.336 | 4.848 | 0.077  |
| 7.551 | 4.848 | 0.077  |
| 7.772 | 4.848 | 0.077  |
| 8.000 | 4.847 | 0.017  |
| 8.234 | 4.847 | 0.017  |
| 8.476 | 4.847 | 0.017  |
| 8.724 | 4.842 | 0.064  |
| 8.980 | 4.842 | 0.064  |
| 9.243 | 4.842 | 0.064  |

|        |       |       |
|--------|-------|-------|
| 9.514  | 4.842 | 0.044 |
| 9.792  | 4.842 | 0.044 |
| 10.079 | 4.841 | 0.072 |
| 10.375 | 4.841 | 0.072 |
| 10.679 | 4.844 | 0.044 |
| 10.992 | 4.844 | 0.044 |
| 11.314 | 4.845 | 0.049 |
| 11.645 | 4.845 | 0.049 |
| 11.986 | 4.846 | 0.028 |
| 12.338 | 4.846 | 0.028 |
| 12.699 | 4.845 | 0.045 |
| 13.071 | 4.845 | 0.045 |
| 13.454 | 4.845 | 0.043 |
| 13.849 | 4.845 | 0.043 |
| 14.254 | 4.844 | 0.061 |
| 14.672 | 4.843 | 0.068 |
| 15.102 | 4.843 | 0.068 |
| 15.545 | 4.841 | 0.068 |
| 16.000 | 4.842 | 0.064 |
| 16.469 | 4.842 | 0.064 |
| 16.951 | 4.844 | 0.040 |
| 17.448 | 4.842 | 0.031 |
| 17.959 | 4.843 | 0.033 |
| 18.486 | 4.843 | 0.033 |
| 19.027 | 4.842 | 0.027 |
| 19.585 | 4.846 | 0.041 |
| 20.159 | 4.846 | 0.042 |
| 20.749 | 4.845 | 0.031 |
| 21.357 | 4.846 | 0.046 |
| 21.983 | 4.846 | 0.043 |
| 22.627 | 4.846 | 0.061 |
| 23.290 | 4.845 | 0.069 |
| 23.973 | 4.845 | 0.069 |
| 24.675 | 4.845 | 0.063 |
| 25.398 | 4.844 | 0.052 |
| 26.143 | 4.843 | 0.051 |
| 26.909 | 4.843 | 0.040 |
| 27.697 | 4.844 | 0.052 |
| 28.509 | 4.843 | 0.058 |
| 29.344 | 4.844 | 0.078 |
| 30.204 | 4.844 | 0.073 |
| 31.089 | 4.844 | 0.087 |
| 32.000 | 4.844 | 0.094 |
| 32.938 | 4.844 | 0.093 |
| 33.903 | 4.845 | 0.114 |
| 34.896 | 4.847 | 0.087 |
| 35.919 | 4.846 | 0.091 |
| 36.971 | 4.846 | 0.077 |
| 38.055 | 4.844 | 0.092 |
| 39.170 | 4.844 | 0.102 |

|         |       |       |
|---------|-------|-------|
| 40.317  | 4.843 | 0.098 |
| 41.499  | 4.844 | 0.107 |
| 42.715  | 4.844 | 0.105 |
| 43.967  | 4.845 | 0.103 |
| 45.255  | 4.845 | 0.106 |
| 46.581  | 4.845 | 0.102 |
| 47.946  | 4.845 | 0.108 |
| 49.351  | 4.845 | 0.118 |
| 50.797  | 4.845 | 0.115 |
| 52.285  | 4.845 | 0.126 |
| 53.817  | 4.846 | 0.132 |
| 55.394  | 4.844 | 0.142 |
| 57.018  | 4.843 | 0.153 |
| 58.688  | 4.843 | 0.156 |
| 60.408  | 4.844 | 0.149 |
| 62.178  | 4.845 | 0.146 |
| 64.000  | 4.844 | 0.157 |
| 65.875  | 4.844 | 0.181 |
| 67.806  | 4.844 | 0.191 |
| 69.792  | 4.844 | 0.190 |
| 71.838  | 4.845 | 0.188 |
| 73.943  | 4.846 | 0.191 |
| 76.109  | 4.846 | 0.192 |
| 78.339  | 4.846 | 0.196 |
| 80.635  | 4.845 | 0.202 |
| 82.998  | 4.845 | 0.219 |
| 85.430  | 4.845 | 0.228 |
| 87.933  | 4.844 | 0.225 |
| 90.510  | 4.843 | 0.216 |
| 93.162  | 4.844 | 0.216 |
| 95.892  | 4.846 | 0.240 |
| 98.701  | 4.846 | 0.249 |
| 101.594 | 4.845 | 0.256 |
| 104.571 | 4.843 | 0.261 |
| 107.635 | 4.842 | 0.282 |
| 110.789 | 4.843 | 0.297 |
| 114.035 | 4.844 | 0.303 |
| 117.377 | 4.844 | 0.296 |
| 120.816 | 4.845 | 0.309 |
| 124.356 | 4.846 | 0.322 |
| 128.000 | 4.847 | 0.343 |
| 131.751 | 4.847 | 0.342 |
| 135.611 | 4.847 | 0.352 |
| 139.585 | 4.846 | 0.361 |
| 143.675 | 4.847 | 0.372 |
| 147.885 | 4.846 | 0.379 |
| 152.219 | 4.845 | 0.401 |
| 156.679 | 4.845 | 0.420 |
| 161.270 | 4.845 | 0.425 |
| 165.995 | 4.845 | 0.428 |

|         |       |       |
|---------|-------|-------|
| 170.860 | 4.845 | 0.446 |
| 175.866 | 4.845 | 0.470 |
| 181.019 | 4.845 | 0.483 |
| 186.324 | 4.846 | 0.498 |
| 191.783 | 4.847 | 0.511 |
| 197.403 | 4.846 | 0.526 |
| 203.187 | 4.845 | 0.542 |
| 209.141 | 4.845 | 0.561 |
| 215.269 | 4.845 | 0.587 |
| 221.577 | 4.845 | 0.608 |
| 228.070 | 4.846 | 0.628 |
| 234.753 | 4.847 | 0.644 |
| 241.632 | 4.847 | 0.654 |
| 248.712 | 4.847 | 0.660 |
| 256.000 | 4.848 | 0.690 |
| 263.501 | 4.849 | 0.718 |
| 271.223 | 4.849 | 0.731 |
| 279.170 | 4.849 | 0.741 |
| 287.350 | 4.847 | 0.769 |
| 295.770 | 4.846 | 0.809 |
| 304.437 | 4.847 | 0.847 |
| 313.358 | 4.848 | 0.886 |
| 322.540 | 4.849 | 0.919 |
| 331.991 | 4.850 | 0.958 |
| 341.719 | 4.851 | 0.991 |
| 351.732 | 4.853 | 1.024 |
| 362.039 | 4.853 | 1.063 |
| 372.647 | 4.854 | 1.130 |
| 383.567 | 4.859 | 1.166 |
| 394.806 | 4.862 | 1.219 |
| 406.375 | 4.869 | 1.264 |
| 418.282 | 4.878 | 1.232 |
| 430.539 | 4.879 | 1.138 |
| 443.155 | 4.871 | 1.128 |
| 456.140 | 4.869 | 1.189 |
| 469.506 | 4.869 | 1.217 |
| 483.264 | 4.867 | 1.267 |
| 497.424 | 4.868 | 1.354 |
| 512.000 | 4.874 | 1.417 |
| 527.003 | 4.879 | 1.427 |
| 542.445 | 4.878 | 1.453 |
| 558.340 | 4.878 | 1.480 |
| 574.701 | 4.877 | 1.499 |
| 591.541 | 4.875 | 1.536 |
| 608.874 | 4.872 | 1.594 |
| 626.715 | 4.871 | 1.693 |
| 645.080 | 4.870 | 1.838 |
| 663.982 | 4.876 | 1.971 |
| 683.438 | 4.882 | 2.031 |
| 703.464 | 4.883 | 2.086 |

|          |       |        |
|----------|-------|--------|
| 724.077  | 4.883 | 2.213  |
| 745.294  | 4.889 | 2.358  |
| 767.133  | 4.897 | 2.486  |
| 789.612  | 4.903 | 2.614  |
| 812.749  | 4.911 | 2.775  |
| 836.565  | 4.919 | 2.976  |
| 861.078  | 4.937 | 3.249  |
| 886.309  | 4.972 | 3.446  |
| 912.280  | 5.007 | 3.432  |
| 939.012  | 5.035 | 3.295  |
| 966.527  | 5.050 | 3.178  |
| 994.849  | 5.065 | 2.963  |
| 1024.000 | 5.044 | 2.821  |
| 1054.005 | 5.018 | 3.116  |
| 1084.890 | 5.035 | 3.766  |
| 1116.680 | 5.088 | 4.145  |
| 1149.401 | 5.141 | 4.343  |
| 1183.081 | 5.205 | 4.550  |
| 1217.748 | 5.289 | 4.527  |
| 1253.431 | 5.376 | 4.304  |
| 1290.159 | 5.462 | 3.798  |
| 1327.964 | 5.549 | 3.132  |
| 1366.876 | 5.649 | 2.124  |
| 1406.929 | 5.708 | 0.255  |
| 1448.155 | 5.642 | -1.823 |
| 1490.589 | 5.480 | -2.929 |
| 1534.266 | 5.338 | -3.068 |
| 1579.224 | 5.249 | -2.759 |
| 1625.499 | 5.196 | -2.410 |
| 1673.129 | 5.175 | -2.108 |
| 1722.156 | 5.164 | -2.014 |
| 1772.619 | 5.145 | -2.032 |
| 1824.561 | 5.118 | -1.891 |
| 1878.024 | 5.123 | -1.693 |
| 1933.055 | 5.131 | -1.882 |
| 1989.697 | 5.105 | -2.176 |
| 2048.000 | 5.064 | -2.144 |
| 2108.011 | 5.043 | -1.953 |
| 2169.780 | 5.037 | -1.814 |
| 2233.360 | 5.033 | -1.820 |
| 2298.802 | 5.017 | -1.893 |
| 2366.162 | 4.991 | -1.859 |
| 2435.496 | 4.971 | -1.653 |
| 2506.862 | 4.961 | -1.450 |
| 2580.318 | 4.955 | -1.285 |
| 2655.927 | 4.950 | -1.144 |
| 2733.752 | 4.947 | -0.968 |
| 2813.857 | 4.953 | -0.823 |
| 2896.309 | 4.962 | -0.746 |
| 2981.178 | 4.967 | -0.778 |

|           |       |        |
|-----------|-------|--------|
| 3068.533  | 4.965 | -0.778 |
| 3158.448  | 4.964 | -0.710 |
| 3250.997  | 4.970 | -0.696 |
| 3346.259  | 4.973 | -0.773 |
| 3444.312  | 4.963 | -0.826 |
| 3545.238  | 4.951 | -0.779 |
| 3649.121  | 4.948 | -0.688 |
| 3756.049  | 4.948 | -0.650 |
| 3866.109  | 4.945 | -0.617 |
| 3979.395  | 4.941 | -0.563 |
| 4096.000  | 4.943 | -0.517 |
| 4216.022  | 4.945 | -0.490 |
| 4339.561  | 4.948 | -0.499 |
| 4466.720  | 4.948 | -0.557 |
| 4597.605  | 4.943 | -0.620 |
| 4732.325  | 4.933 | -0.622 |
| 4870.992  | 4.922 | -0.565 |
| 5013.723  | 4.915 | -0.481 |
| 5160.637  | 4.914 | -0.397 |
| 5311.855  | 4.916 | -0.353 |
| 5467.504  | 4.915 | -0.360 |
| 5627.714  | 4.910 | -0.396 |
| 5792.619  | 4.902 | -0.394 |
| 5962.355  | 4.893 | -0.331 |
| 6137.066  | 4.885 | -0.233 |
| 6316.896  | 4.883 | -0.120 |
| 6501.995  | 4.885 | -0.049 |
| 6692.518  | 4.883 | -0.029 |
| 6888.623  | 4.878 | -0.004 |
| 7090.476  | 4.871 | 0.067  |
| 7298.242  | 4.865 | 0.144  |
| 7512.097  | 4.861 | 0.250  |
| 7732.218  | 4.861 | 0.372  |
| 7958.790  | 4.862 | 0.472  |
| 8192.000  | 4.865 | 0.547  |
| 8432.044  | 4.868 | 0.601  |
| 8679.122  | 4.869 | 0.653  |
| 8933.439  | 4.869 | 0.716  |
| 9195.209  | 4.872 | 0.745  |
| 9464.649  | 4.872 | 0.774  |
| 9741.985  | 4.870 | 0.808  |
| 10027.447 | 4.869 | 0.875  |
| 10321.273 | 4.867 | 0.917  |
| 10623.710 | 4.865 | 0.952  |
| 10935.008 | 4.863 | 1.001  |
| 11255.428 | 4.860 | 1.052  |
| 11585.238 | 4.857 | 1.117  |
| 11924.711 | 4.854 | 1.193  |
| 12274.132 | 4.852 | 1.268  |
| 12633.791 | 4.850 | 1.342  |

|           |       |       |
|-----------|-------|-------|
| 13003.989 | 4.848 | 1.424 |
| 13385.035 | 4.846 | 1.516 |
| 13777.247 | 4.845 | 1.593 |
| 14180.951 | 4.843 | 1.674 |
| 14596.485 | 4.841 | 1.768 |
| 15024.194 | 4.841 | 1.871 |
| 15464.437 | 4.840 | 1.968 |
| 15917.579 | 4.840 | 2.072 |
| 16384.000 | 4.841 | 2.183 |
| 16864.088 | 4.842 | 2.294 |
| 17358.243 | 4.843 | 2.412 |
| 17866.879 | 4.845 | 2.557 |
| 18390.418 | 4.851 | 2.734 |
| 18929.299 | 4.860 | 2.907 |
| 19483.969 | 4.869 | 3.021 |
| 20054.893 | 4.863 | 2.958 |
| 20642.546 | 4.767 | 1.851 |