f Hz	l m	l̄ m	λ mm	v_s m/s
900	0.1750 0.1770 0.1770	0.1763	352.6	317.34
950	0.1740 0.1830 0.1850	0.1806	361.2	343.14
1000	0.1720 0.1720 0.1700	0.1713	342.6	342.60
1050	0.1610 0.1580 0.1600	0.1596	319.2	335.15
1100	0.1580 0.1530 0.1560	0.1556	311.2	342.32

$$\lambda = 2l$$

$$\overline{v_s} = \frac{v_{s_1} + \ldots + v_{s_5}}{5}$$

$$\begin{cases} \sigma = \sqrt{\dfrac{\sum\limits_{i=1}^{m}\left(v_{s_i} - \overline{v_s}\right)^2}{n(n-1)}} \\[4mm] \varepsilon = \dfrac{\sigma}{v_s} \cdot 100 \end{cases}$$

$$\overline{l}_{900} = \frac{l_1 + l_2 + l_3}{3} = \frac{0.1750 + 0.1770 + 0.1770}{3} = \frac{0.529}{3} = 0.1763\ m$$

$$\lambda_{900} = 0.1763\ m \cdot 2 = 0.3526\ m = (0.3526 \cdot 1000)\ mm = 352.6\ mm$$
$$= \overline{l}_{900} \cdot 2$$

$$v_{s_{900}} = 0.1763\ m \cdot 2 \cdot 900\ Hz = 0.3526\ m \cdot \frac{900}{s} = 317.34\ m/s$$
$$= \overline{l}_{900} \cdot 2 \cdot f$$

$$\overline{v_s} = \frac{\sum\limits_{i=1}^{5} v_{s_i}}{5} = \frac{v_{s_1} + v_{s_2} + v_{s_3} + v_{s_4} + v_{s_5}}{5} =$$

$$= \frac{317.34 + 343.14 + 342.60 + 335.15 + 342.32}{5} = \frac{1680.55}{5} =$$

$$= 336.11\ m/s$$

$$\sigma = \sqrt{\frac{(v_{s_1} - \overline{v_s})^2 + (v_{s_2} - \overline{v_s})^2 + \cdots + (v_{s_5} - \overline{v_s})^2}{5(5-1)}} =$$

$$(v_{s_1} - \overline{v_s})^2 = (317.34 - 336.11)^2 = (-18.77)^2 = 352.3129 \quad (1)$$

$$(v_{s_2} - \overline{v_s})^2 = 49.9208 \quad (2)$$

$$(v_{s_3} - \overline{v_s})^2 = 42.1201 \quad (3)$$

$$(v_{s_4} - \overline{v_s})^2 = 0.9216 \quad (4)$$

$$(v_{s_5} - \overline{v_s})^2 = 38.5640 \quad (5)$$

$$(1, 2, 3, 4, 5) \Rightarrow \sigma = \sqrt{\frac{352.3129 + 49.9208 + 42.1201 + 0.9216 + 38.5640}{5 \cdot 4}} =$$

$$= \sqrt{\frac{483.3394}{20}} = \sqrt{24.16697} = 4.9159 = \sigma$$

$$\varepsilon = \frac{4.9159}{336.11} \cdot 100 = \frac{491.59}{336.11} = 1.4625 \%$$