

Central peak to left peak distance (l1)	4.75 mm
Central peak to right peak distance (l2)	5.00 mm

Distance of detector from grating (D)	1.303 ± 0.005 mm
Wavelength of laser (λ)	650 nm
Frequency of RF osc (f)	4.81 MHz
R.I. of water (u)	1.33

Speed of UV sound in water =	$2f(D\lambda)/u$
	1312 m/s using l1
	1250 m/s using l2

Error in measuring l1 and l2 can be crudely estimated by measuring the distance of the points adjacent to the peaks and has been found to be around 10%.