

Facility

Well Quality Control

Manufacturer: _____
Model: _____ **S/N:** _____
Test Date: _____
Isotope: _____ **Activity:** _____ μ Ci on _____
Current Activity: _____ dpm **Net cpm:** _____ **Bkg:** _____
Efficiency = #DIV/0! **X_{avg} =** #DIV/0!
Present H.V. _____ **New H.V.** _____ **χ^2 =** #DIV/0!
Background _____ cpm **σ =** #DIV/0!
Setting: _____ **Expected $\sigma = (X)^{1/2} =$** #DIV/0!
Technique: _____

⁵⁷Co Efficiency (well)

Activity: _____ uCi
 on: _____ (date)
 Current Act. 0 dpm
 Current CPM: _____
 Efficiency: #DIV/0!
 dpm/cpm: #DIV/0!

$$MDA = \frac{4.65 \sqrt{Bkg}}{(C.E.)(T)}$$
MDA = #DIV/0! dpm

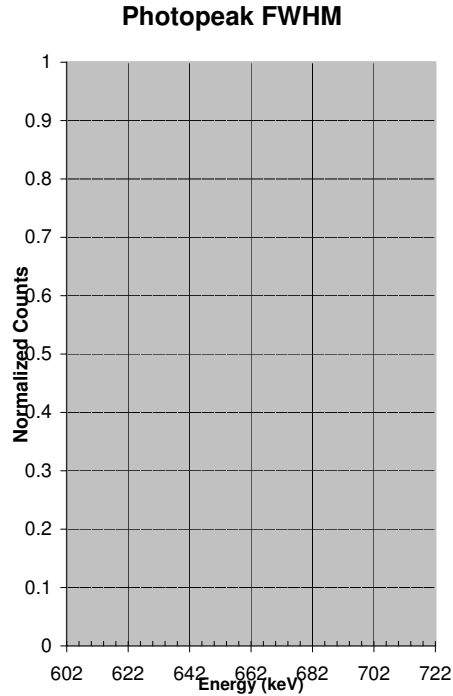
Normal Range: - 4.17-14.68 For 10 Counts

STATISTICAL ANALYSIS (Chi Square Test)

X_i	$(X_i - X_{avg})^2$
_____	#DIV/0!
_____	#DIV/0!
_____	#DIV/0!
_____	#DIV/0!
_____	#DIV/0!
_____	#DIV/0!
_____	#DIV/0!
_____	#DIV/0!
_____	#DIV/0!
_____	#DIV/0!
_____	#DIV/0!
_____	#DIV/0!

Photo Peak Resolution

Peak KeV	Counts	Normalized Ratio
_____	_____	#DIV/0!
_____	_____	#DIV/0!
_____	_____	#DIV/0!
_____	_____	#DIV/0!
_____	_____	#DIV/0!
_____	_____	#DIV/0!
_____	_____	#DIV/0!
_____	_____	#DIV/0!
_____	_____	#DIV/0!
_____	_____	#DIV/0!
_____	_____	#DIV/0!
_____	_____	#DIV/0!



FWHM = #DIV/0!

Results: Chi-square results acceptable. Good photopeak resolution. Minimum detectable activity (MDA) acceptable for _____
 wine test action levels of 200 dpm. The dpm/cpm conversion factor to be utilized for wine testing is 1. xx for nuclides in the ⁵⁷Co