



Radionuclide Analysis Facility

Gamma Analysis Report

Issued by Vernon Cupps

Report Date: August 22, 2011
Work Request #: 11-162
Submitted by: B. Brown on 7/5/11
Workbook: P-HPGe #1-10, page(s) 58-59

MI Collimator

The Accelerator Division/MI Department submitted 1 steel tag sample, on Work Request# 11-162, for analysis of accelerator produced radionuclides. The sample was counted on detector P-HPGe#1.

The following table lists the radionuclides detected in the sample, along with the corresponding specific activity. If a sample activity was reported it has been corrected back to the time of sampling.

SampleID#	Location	Container	Count Info	Mass/Vol.	Count Date	Radionuclide	Activity (pCi/g)
110705BB01	MI collimator Tag #011	None	7200sec @ 10cm	13.339 g	7/7/11 @ 10:05	Co-60	20.9 ± 4.5
						Cr-51	1,990 ± 310
						Fe-59	1,550 ± 140
						Mn-52	1,140 ± 80
						Mn-54	544 ± 83
						Sb-122	8,400 ± 830
						Sb-124	1,090 ± 80
						Sc-44m	118 ± 20
						Sc-46	45.1 ± 7.1
						Sc-47	128 ± 21
						Sc-48	25.3 ± 9.5
						Ti-44/Sc-44*	71.8 ± 13.3
						V-48	517 ± 48

cc: ES&H Setion Dist List [MS-119] B. Brown [MS-306]
V. Cupps, MS-325 RAF Folder

AD_MI Collimator_11-162