



EXPERIMENT

Spectrum Name: Autunite - Daybreak Mine, Spokane, Wa
 Description: Small sample of Autunite, hydrated calcium uranyl phosphate (Ca(UO₂)₂(PO₄)₂·10-12H₂O)
 Student ID: Tom
 Detector: UCS30 + 6S6P1.5VDC2 38mm NaI(Tl) Scintillator
 Comments: Glows a beautiful green in long-wave UV
 Start Time: November 28, 2011, 10:16:46
 End Time: November 28, 2011, 10:54:16

SET UP

Acquisition Mode: PHA Pre-Amp High Voltage: 650
 Conversion Gain: 1024 Coarse Gain: 2 Fine Gain: 1.0
 Upper Discriminator: 1023 Lower Discriminator: 13
 Live Time: 2244.3 Real Time: 2249.68 Percent Dead: 0.23

REGIONS OF INTEREST

Peak Start	Peak End	Gross	Net	Energy	FWHM
41	58	23694	1584	50	4
77	92	70310	11524	84	6
133	161	23056	1533	147	8
166	207	39178	10305	186	11
212	262	36418	7011	238	12
268	313	39614	13626	291	16
320	375	50527	26222	347	18
551	665	30493	19362	606	25
1060	1181	7605	2854	1120	26
1662	1851	4223	2290	1751	27