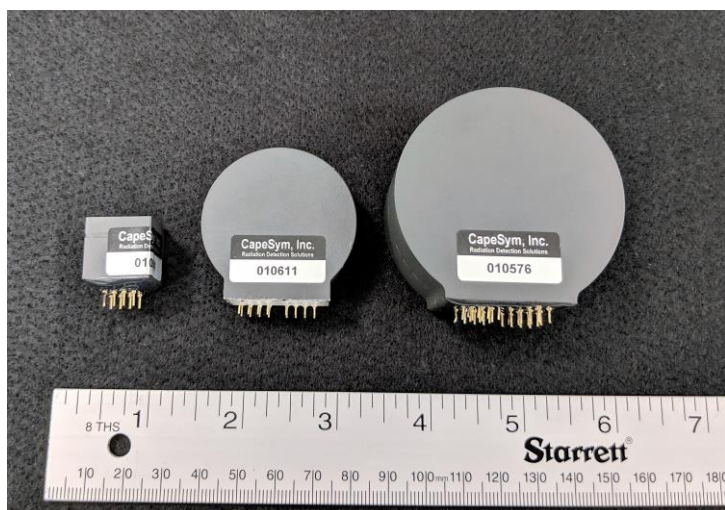




ScintiClear™ SiPM Detectors

CapeSym's **ScintiClear™** is a new high-performance $\text{SrI}_2(\text{Eu})$ -based scintillator made in the USA. Our proprietary crystal growth process improves its inherently excellent properties, and limits the negative effects of Eu self-absorption. Guaranteed energy resolution of ScintiClear SiPM detectors is $\leq 3.5\%$ at 662 keV. With 4.6 g/cc density, $Z_{\text{eff}} = 49$, and absence of internal activity, ScintiClear SiPM detectors are an excellent choice for all kind of applications.

	SC-13c-SiPM	SC-38x13D-SiPM	SC-51x25D-SiPM
Crystal sizes, mm ³	12.7x12.7x12.7 (12.7x12.7x25.4)	Ø38.1x12.7	Ø50.8 x 25.4
SiPM array (6x6mm ²)	2x2	2x4	4x4
Package dimensions, mm	18x18x20 (18x18x33)	Ø42x17	Ø58x32
Weight, g	15 (25)	78	260
ER % at 662keV	≤ 3.3	≤ 3.5	≤ 3.5
Gamma sensitivity, cps/uSv/h at 662keV	50 (100)	350	1000
Internal activity, cps/cc	< 0.05		

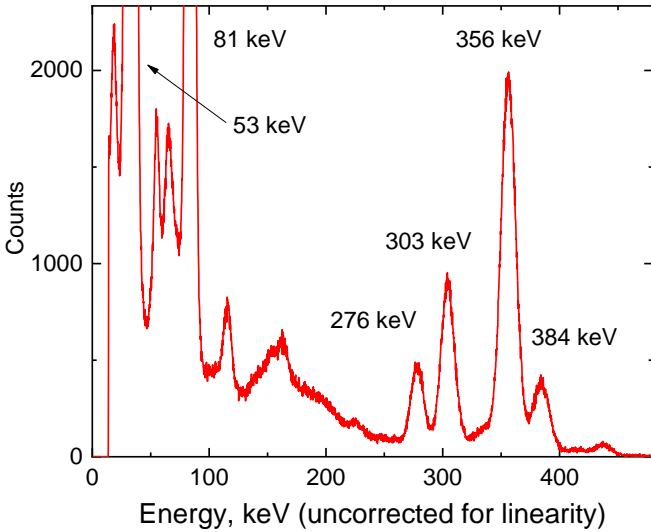


CapeSym's proprietary crystal growth process is now routinely producing crystals up to Ø76.2 and 127 mm long. The patent-pending process is based on decades of experience in crystal growth and crystal growth process simulation.

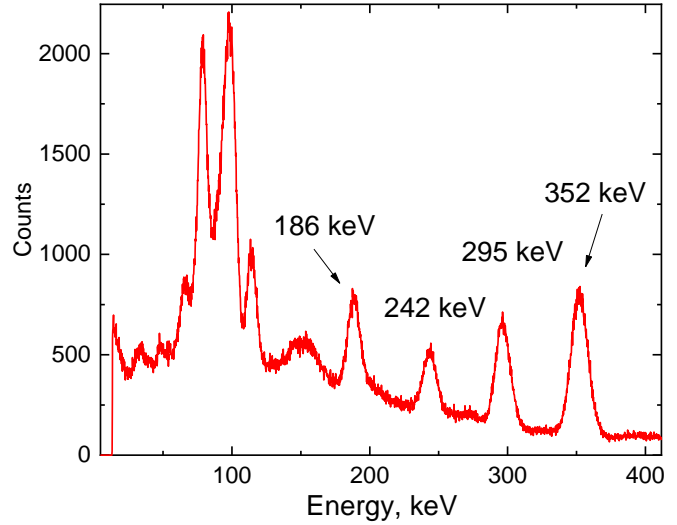
Unambiguous Identification with ScintiClear™

All spectra measured with SiPM detectors

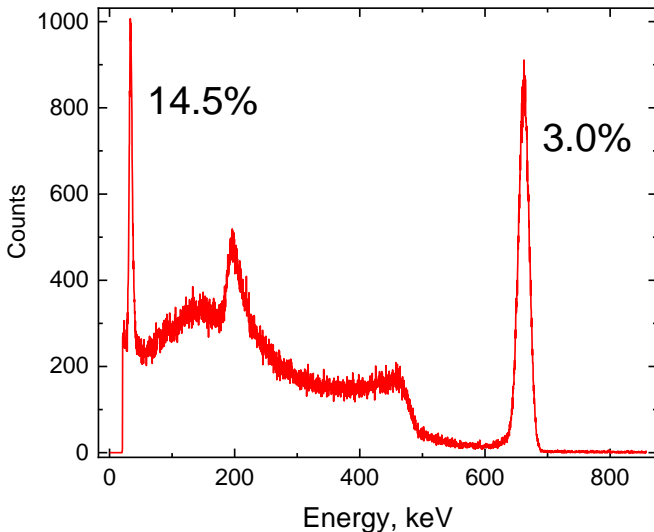
Ba-133 radioactive source



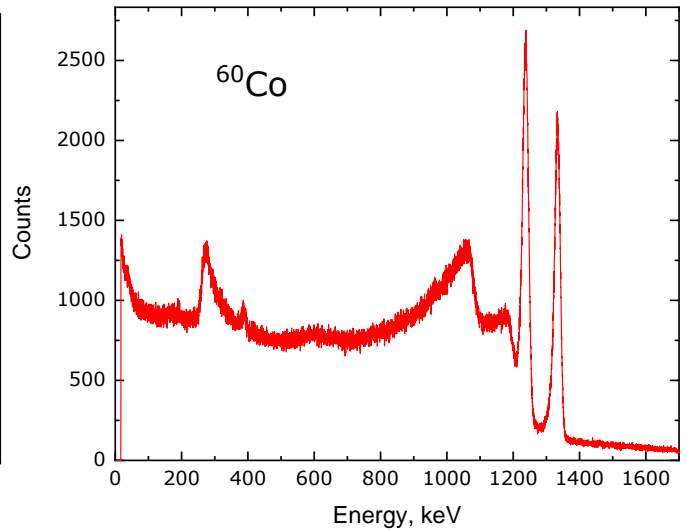
U-ore environmental sample



Cs-137 radioactive source



Co-60 radioactive source



Critical situations demand immediate and accurate identification of the radiological material present. **ScintiClear™** easily separates low energy Ba-133 peaks as well as the ^{137}Cs and ^{134}Cs lines (662 keV and 605 keV respectively) and eases the task of identifying the 186 keV line (HEU) and 414 keV line (WGPu) even in the presence of interfering radionuclides. **ScintiClear™** also offers high energy resolution in the MeV range, and no internal activity. These attributes, combined with good linearity, high density and Z_{eff} enable clear identification of 1001 keV line (DU) and high energy environmental peaks.