

Radioactive sources

- Am-241 18.x MBq
 - Gamma calibration source of FPD system.
 - At least closer to detector as new calibration port in new detector chamber
- Enquiry ongoing on higher activity sources
 - Ba-133 up to 370 MBq (catalogue value – so no problem to get) but higher would be nice.
 - 30.85 keV
 - 35.1 keV
 - 81.0 keV

Recommended Nuclear Decay Data

Ba-133

Decay Mode: EC		Half-Life: (3848 ± 6) d		[2]	
Radiation Type		Energy (keV)	Intensity (%)		Ref.
Auger-L		3.55	133	6	[4]
Auger-K		25.5	13.8	16	[4]
ce-K-1		17.18	10.6	4	[4]
ce-K-2		43.64	3.43	16	[4]
ce-K-3		45.01	45.2	10	[4]
ce-L-1		47.45	1.45	20	[4]
ce-MNO-1		51.94	0.44	20	[4]
ce-L-2		73.91	0.54	10	[4]
ce-L-3		75.28	7.37	23	[4]
ce-MNOP-3		79.5	2.02	14	[4]
ce-K-7		266.87	0.70	6	[4]
ce-K-8		320.03	1.31	4	[4]
ce-K-9		347.87	0.154	5	[4]
ce-L-8		350.30	0.218	7	[4]
X-ray L	Σ	4.53	14.5	13	[2]
X-ray Kα	Σ	30.85	98.0	14	[2]
X-ray Kβ	Σ	35.1	23.0	5	[2]
γ		53.16	2.199	22	[2]
γ		79.62	2.62	6	[2]
γ		81.00	34.06	27	[2]
γ		160.61	0.646	8	[2]
γ		223.25	0.450	4	[2]
γ		276.40	7.164	22	[2]
γ		302.85	18.33	6	[2]
γ		356.02	62.05	19	[2]
γ		383.85	8.94	3	[2]