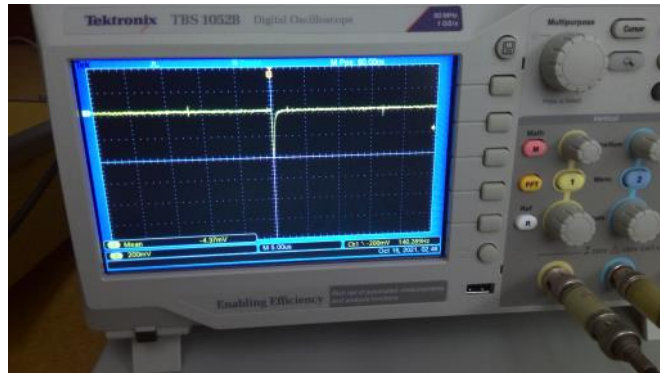


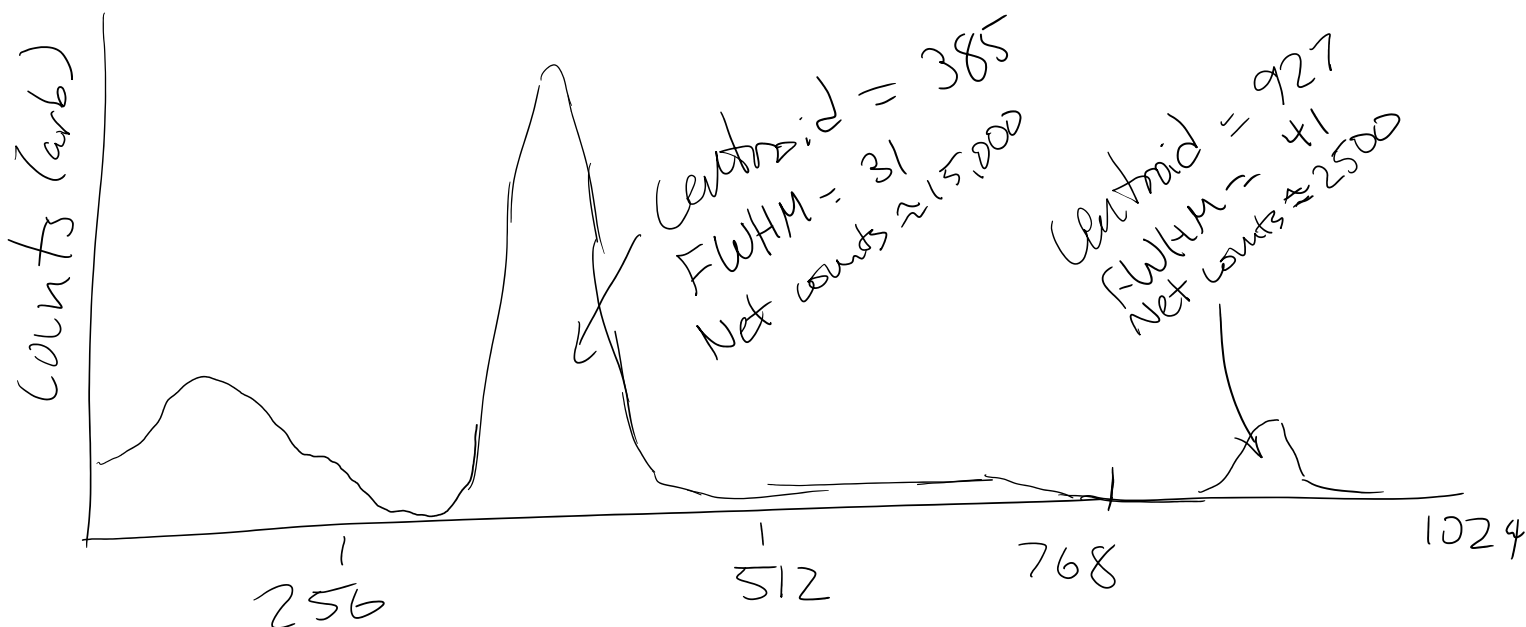
-Using Al, so we'll need a lot of shielding

Initial oscilloscope reading w/ no shielding:



Initial count spectrum:

btr = 1000, gain = 2×1.86



channel

Lower ROI: 354 - 425

Net $\sim 15,000$

FWHM = 31

Centroid = 385.5

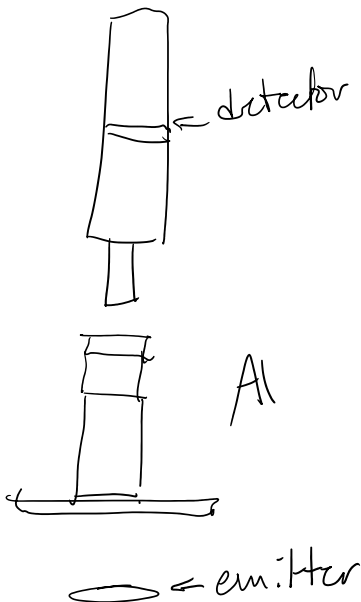
Upper 889 - 970

Net ~ 2500

FWHM = 41

Cent = 927.9

First round: thickness: 1.6 cm } ± 0.05 mm
3.2 cm }
6.7 cm }



383

N: 2995

G: 5120

Rates:

$\sim 14.4/s$

920:

N: 1106

G: 1316

$\sim 3.7/s$

live time: 356s ± 1

New params:

325 - 425

+

G ~

6247 3722

2nd round: no shielding

time	385 ch:		927 ch:	
	G	N	G	N
178	18,203	16,074	3188	2363

New:

325 - 425	
G	N
19764	16984

3: background run:

time	385		927	
	G	N	G	N
205	336	119	47	47

New:

325 - 425	
G	N
471	217

4: shielding: 32mm

time

	G	N	G	N
201	11819	9191	2297	1804

New:	325 - 425	
	G	N
	12928	10402

5: 67mm

+	325 - 425	889 - 970
	G	N
224	8259	5986
		1516
		1023

6: 67mm + 16mm

+	325 - 425	889 - 970
	G	N
324	8729	6103
		1787
		1334

7: 16mm

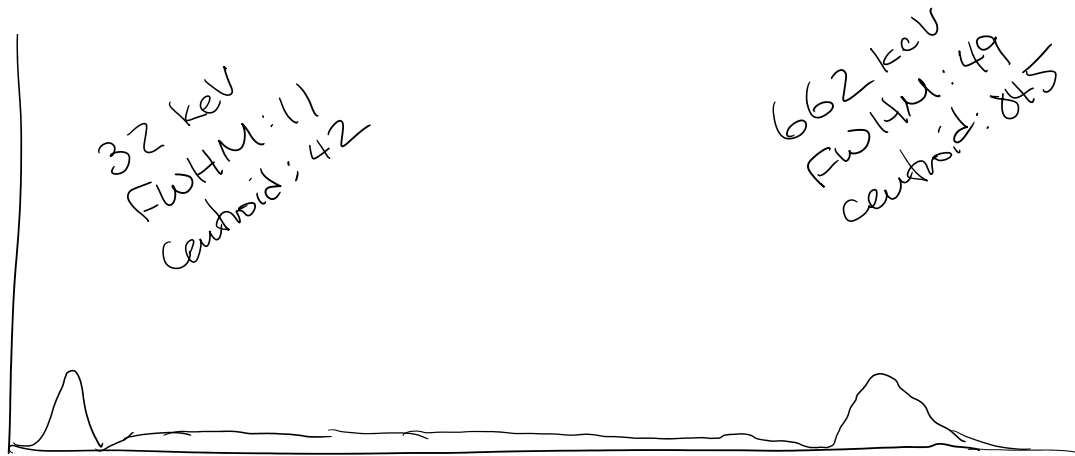
+	325 - 425	889 - 970
	G	N
172	14219	11794
		2471
		2018

tablifed:

thickness	num plates	t	325-425		889-970	
			G	N	G	N
0	0	178	18703	16074	3186	2363
16	1	172	14219	11794	2471	2018
32	1	201	11819	9191	2297	1804
67	1	224	8259	5986	1516	1023
83	2	324	8729	6103	1787	1334
115	3	356	6247	3722	1316	1106

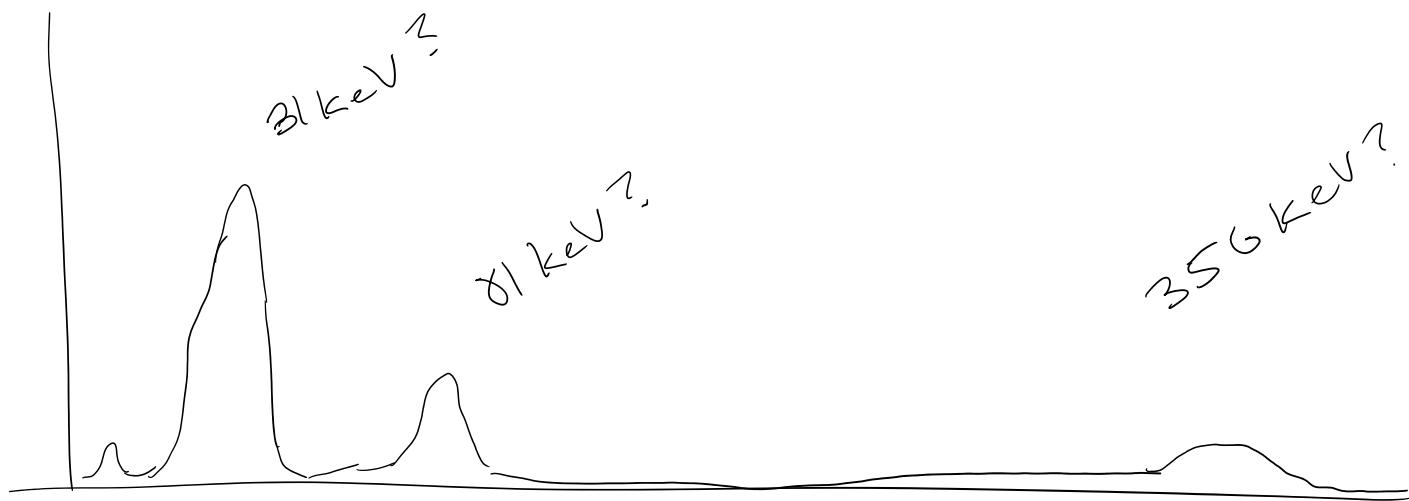
Gain 4×1.65

spectrum:



(mm)	(sec)				
Shielding	t	G	N	783 - 903	
				G	N
0	137	2767	1732	5128	4523
25-60: 0	137	2533	1686		
67+16+32	aborted				
		25 - 50			
32		1076	345	4691	3963
		25 - 60			
0.6	233	3913	2307	8439	7049

0.6	233	3913	2307	8439	7049
1	202	3090	1793	7298	6450
3	252	3011	1462	9013	7862
7	246	2123	769	8001	7152
32	207	too noisy		4291	3628
67	211			2382	1895
0.6 (again)	282			10293	8961

Gain 8×1.65 

Confirmed, those are what they are

table:		61 - 107		185 - 259		832 - 954	
x	t	G	N	G	N	G	N
0	106	43453	37365	18089	12950	13193	8149
99	263	3154	1603	5504	-10	3885	2100
67	259	5082	3036	7719	1343	7449	3819
16	238	9064	5632	22066	12615	20379	11522
4	166	27364	22404	24092	16216	18680	11545
1	143	45736	39014	23070	15681	17187	10482
0.6	105	38120	32643	17629	12115	12921	7200