

# Low Radioactivity Measures

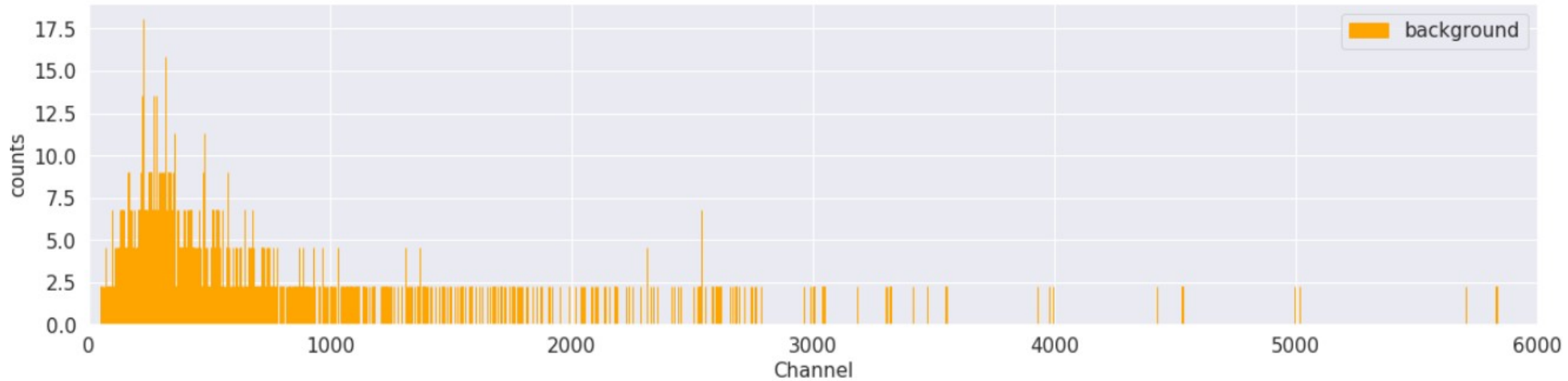
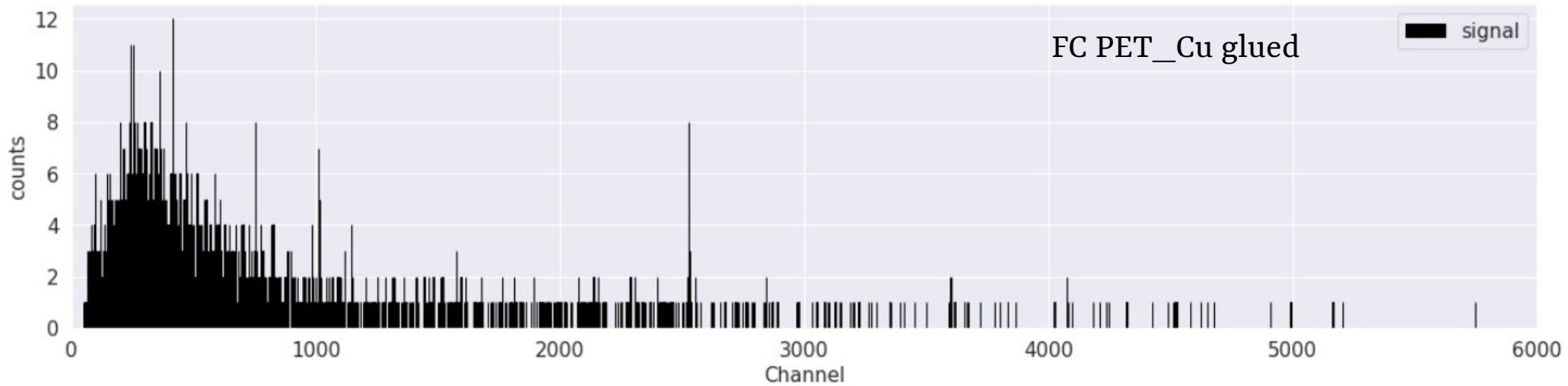
## Status of materials

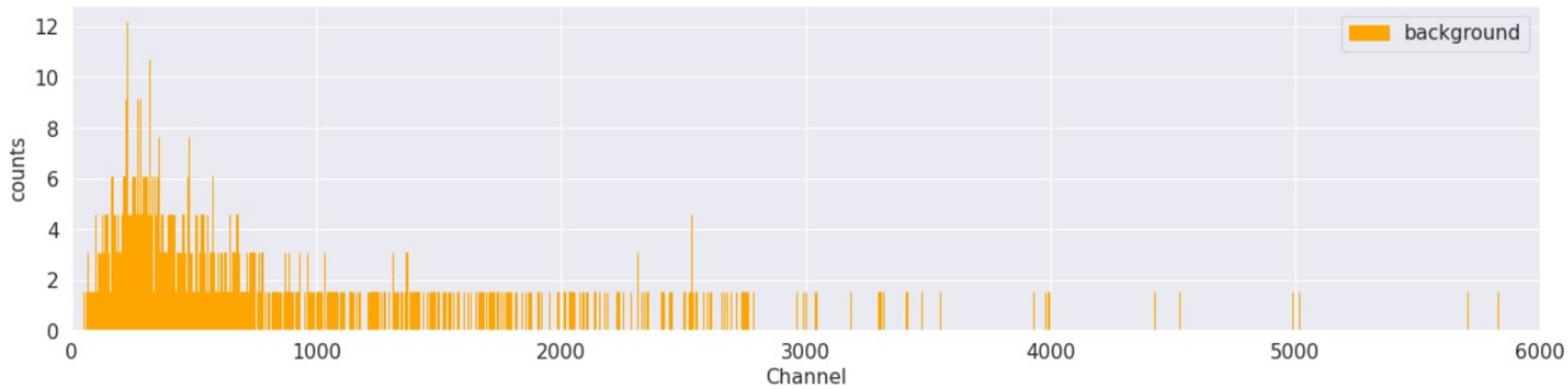
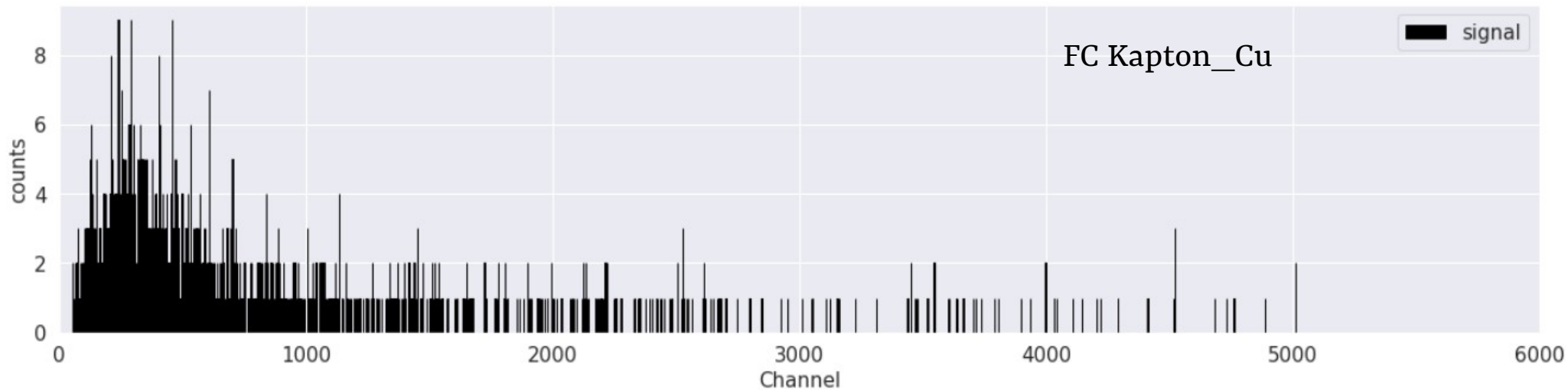
	alias	LNF	LNGS	in measure	measured	analysed	comments
FC-kapton+Cu			x	no	yes	on-going	abbiamo noi gli spettri
FC-PET+Cu	PVC		x	no	yes	yes	abbiamo anche noi gli spettri
FC-PET+Cu no glue	PVC no glue		x	no	yes	on-going	forse non si può usare che scarica
FC-PET+Cu+glue	forato	x					
nylon6	PA6		x	no	yes	on-going	abbiamo noi gli spettri
Foglio GEM			x	no	no	no	
nylon screws			x	no	yes	no	
steel screws			x	no	yes	no	
SMD resistors			x	no	yes	no	
CMOS camera				no	yes	yes	abbiamo risultati di Matthias

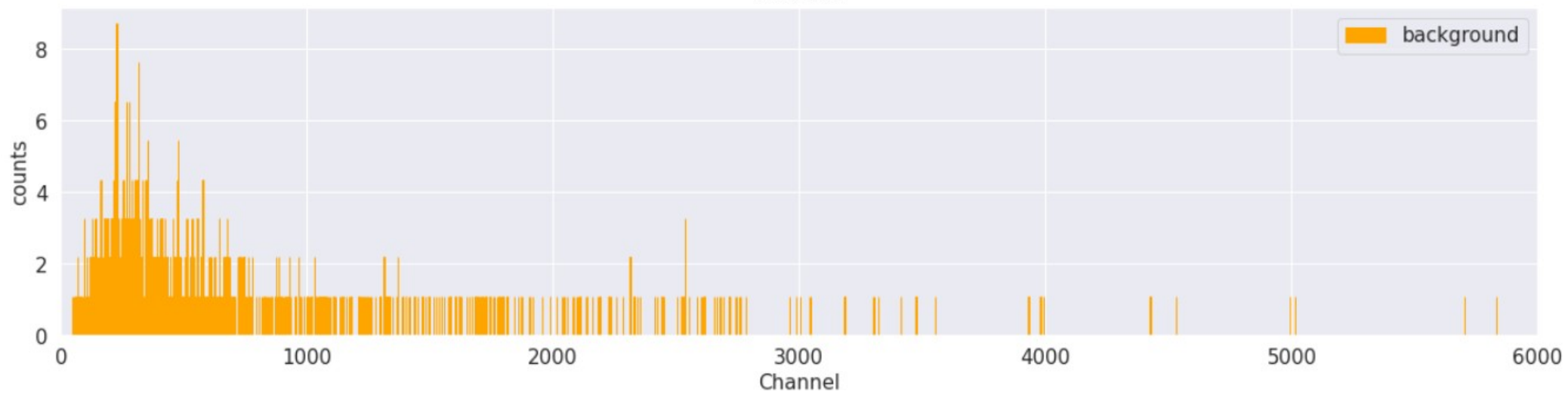
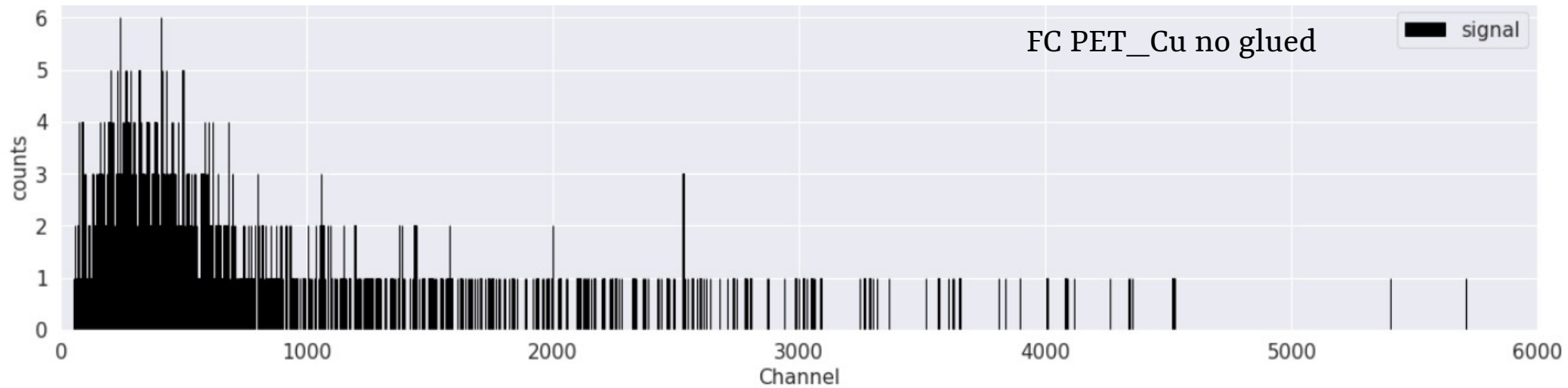
Materials analysed:

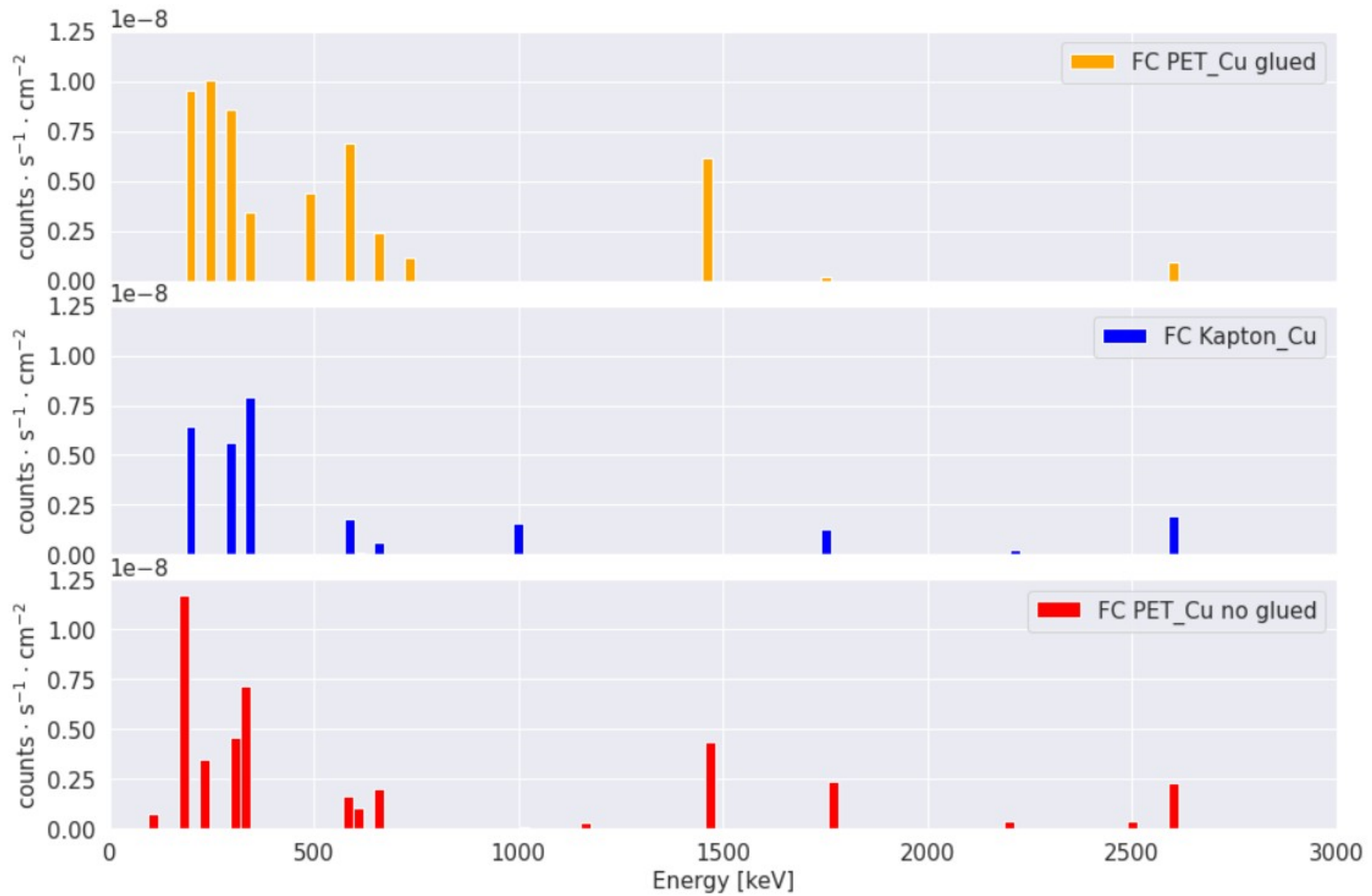
- FC PET\_Cu glued
- FC Kapton\_Cu
- FC PET\_Cu no glued

**The activity concentration of these materials has not been determined because of we have not efficiency values**









## FC PET\_Cu glued

## FC Kapton\_Cu

## FC PET\_Cu no glued

	peak	counts	energy
1	U-235/Ra-226	23.78	186
2	Pb-212	25.11	238.63
3	Pb-214	11.41	295.22
4	Ba-133	9.93	302.85
5	Ac-228	3.0	338.32
6	Eu-152	5.0	344.28
7	Pb-214	0.48	351.93
8	Be-7	11.02	477.6
9	Tl-208	17.26	583.19
10	Cs-137	6.0	661.65
11	Bi-212	2.87	727.33
12	K-40	15.35	1460.82
13	Bi-214	0.5	1764.49
14	Tl-208	2.24	2614.51

	peak	counts	energy
1	U-235/Ra-226	14.58	186
2	Pb-214	4.34	295.22
3	Ba-133	8.39	302.85
4	Ac-228	6.0	338.32
5	Pb-214	11.95	351.93
6	Tl-208	4.03	583.19
7	Bi-214	0.21	609.31
8	Ag-110	1.45	657.76
9	Pa-234	3.67	1001.34
10	Bi-214	3.0	1764.49
11	Bi-214	0.5	2204.21
12	Tl-208	4.47	2614.51

	peak	counts	energy
1	Th-234	0.98	92.38
2	U-235/Ra-226	14.77	186
3	Pb-212	4.37	238.63
4	Pb-214	1.81	295.22
5	Ba-133	3.99	302.85
6	Ac-228	5.0	338.32
7	Eu-152	4.0	344.28
8	Tl-208	2.09	583.19
9	Bi-214	1.37	609.31
10	Cs-137	2.5	661.65
11	Pa-234	0.08	1001.34
12	Co-60	0.41	1173.23
13	K-40	5.49	1460.82
14	Bi-214	3.0	1764.49
15	Bi-214	0.5	2204.21
16	Co-60	0.5	2505.69
17	Tl-208	2.91	2614.51

## Preliminary results:

- FC PET\_Cu glued → U-235/Ra-226, Pb-212, Pb-214, Ba-133, Ac-228, Eu-152, Be-7, Tl-208, Cs-137, Bi-212, K-40, Bi-214
- FC Kapton\_Cu → U-235/Ra-226, Pb-214, Ba-133, Ac-228, Tl-208, Bi-214, Ag-110, Pa-234
- FC PET\_Cu no glued → Th-234, U-235/Ra-226, Pb-212, Pb-214, Ba-133, Ac-228, Eu-152, Tl-208, Bi-214, Cs-137, Pa-234, Co-60, K-40