



**EXPERIMENT**

Spectrum Name: AC/Heater Paper Filter Sample J-F From Saga City, Saga Prefecture  
 Description: Filter used in AC/Heater. Filter was used from around 3/11 until 6/11.  
 Student ID: Tom  
 Detector: UCS30 + 6S6P1.5VDC2 38mm NaI(Tl) Scintillator  
 Comments: 28800 Second Test  
 Start Time: December 17, 2011, 03:35:48  
 End Time: December 17, 2011, 11:35:50

**SET UP**

Acquisition Mode: PHA Pre-Amp High Voltage: 700  
 Conversion Gain: 1024 Coarse Gain: 1 Fine Gain: 1.0  
 Upper Discriminator: 1023 Lower Discriminator: 14  
 Live Time: 28800.0 Real Time: 28801.26 Percent Dead: 0.00

**REGIONS OF INTEREST**

Peak Start	Peak End	Gross	Net	Energy	FWHM
479	540	5769	715	509	18
1336	1492	3808	1952	1411	26

0: 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 97 |  
10: 314 | 388 | 402 | 422 | 415 | 428 | 402 | 396 | 420 | 445 |  
20: 414 | 467 | 426 | 427 | 408 | 410 | 396 | 469 | 472 | 556 |  
30: 585 | 604 | 702 | 748 | 804 | 840 | 883 | 787 | 693 | 702 |  
40: 669 | 568 | 586 | 514 | 492 | 451 | 395 | 379 | 397 | 359 |  
50: 345 | 310 | 342 | 293 | 355 | 321 | 334 | 298 | 314 | 339 |  
60: 334 | 365 | 329 | 315 | 303 | 303 | 321 | 300 | 321 | 342 |  
70: 313 | 316 | 318 | 342 | 315 | 303 | 313 | 309 | 326 | 325 |  
80: 282 | 312 | 340 | 293 | 301 | 301 | 311 | 294 | 306 | 320 |  
90: 309 | 279 | 340 | 291 | 295 | 300 | 302 | 329 | 302 | 297 |  
100: 277 | 280 | 299 | 313 | 310 | 274 | 242 | 275 | 273 | 313 |  
110: 289 | 295 | 285 | 298 | 322 | 309 | 323 | 287 | 297 | 316 |  
120: 289 | 286 | 253 | 294 | 249 | 282 | 270 | 270 | 277 | 277 |  
130: 252 | 285 | 291 | 255 | 232 | 250 | 252 | 274 | 284 | 239 |  
140: 240 | 263 | 289 | 255 | 278 | 267 | 272 | 233 | 249 | 249 |  
150: 258 | 231 | 267 | 247 | 233 | 253 | 233 | 216 | 270 | 218 |  
160: 235 | 237 | 249 | 223 | 224 | 230 | 212 | 229 | 196 | 215 |  
170: 208 | 222 | 233 | 200 | 202 | 199 | 212 | 217 | 203 | 212 |  
180: 208 | 198 | 205 | 206 | 205 | 187 | 199 | 173 | 180 | 182 |  
190: 210 | 174 | 186 | 183 | 188 | 161 | 189 | 201 | 194 | 194 |  
200: 181 | 184 | 194 | 195 | 201 | 185 | 185 | 160 | 192 | 166 |  
210: 191 | 206 | 172 | 171 | 179 | 185 | 174 | 156 | 184 | 168 |  
220: 176 | 182 | 164 | 154 | 173 | 189 | 164 | 180 | 161 | 180 |  
230: 164 | 162 | 154 | 166 | 198 | 182 | 169 | 162 | 179 | 190 |  
240: 177 | 210 | 191 | 208 | 190 | 216 | 219 | 218 | 204 | 213 |  
250: 194 | 201 | 203 | 228 | 189 | 198 | 200 | 193 | 199 | 182 |  
260: 192 | 179 | 165 | 164 | 154 | 147 | 133 | 167 | 160 | 156 |  
270: 141 | 155 | 151 | 158 | 142 | 122 | 155 | 130 | 169 | 142 |  
280: 153 | 163 | 138 | 147 | 150 | 152 | 159 | 140 | 156 | 143 |  
290: 130 | 131 | 146 | 137 | 142 | 126 | 123 | 152 | 155 | 147 |  
300: 137 | 137 | 143 | 136 | 122 | 122 | 135 | 128 | 137 | 125 |  
310: 123 | 109 | 115 | 118 | 129 | 139 | 104 | 104 | 118 | 123 |  
320: 130 | 140 | 121 | 124 | 111 | 121 | 103 | 111 | 110 | 126 |  
330: 106 | 120 | 117 | 127 | 130 | 103 | 103 | 101 | 111 | 112 |  
340: 121 | 128 | 116 | 132 | 116 | 104 | 105 | 122 | 112 | 105 |  
350: 96 | 100 | 132 | 104 | 105 | 105 | 96 | 97 | 111 | 92 |  
360: 105 | 109 | 95 | 91 | 110 | 95 | 117 | 111 | 98 | 97 |  
370: 93 | 99 | 93 | 100 | 101 | 95 | 87 | 88 | 86 | 102 |  
380: 126 | 111 | 106 | 92 | 109 | 90 | 101 | 80 | 78 | 105 |  
390: 113 | 97 | 90 | 100 | 105 | 92 | 108 | 106 | 82 | 82 |  
400: 82 | 80 | 90 | 86 | 91 | 94 | 91 | 70 | 86 | 118 |  
410: 78 | 98 | 95 | 91 | 75 | 87 | 83 | 98 | 102 | 84 |  
420: 81 | 97 | 97 | 86 | 98 | 87 | 80 | 92 | 75 | 98 |  
430: 92 | 80 | 96 | 90 | 83 | 85 | 97 | 100 | 86 | 94 |  
440: 81 | 79 | 95 | 84 | 91 | 103 | 112 | 80 | 97 | 97 |  
450: 95 | 81 | 102 | 83 | 85 | 76 | 90 | 95 | 94 | 83 |  
460: 91 | 90 | 81 | 93 | 86 | 87 | 74 | 86 | 73 | 67 |  
470: 92 | 68 | 92 | 80 | 101 | 84 | 71 | 64 | 87 | 69 |  
480: 82 | 86 | 83 | 88 | 71 | 75 | 72 | 68 | 83 | 61 |  
490: 87 | 53 | 85 | 64 | 59 | 80 | 81 | 74 | 57 | 78 |

500: 67 | 83 | 65 | 79 | 79 | 76 | 85 | 95 | 67 | 82 |  
510: 86 | 80 | 81 | 84 | 73 | 76 | 67 | 95 | 90 | 72 |  
520: 81 | 65 | 75 | 60 | 69 | 73 | 65 | 76 | 73 | 85 |  
530: 74 | 81 | 55 | 76 | 58 | 67 | 67 | 79 | 58 | 56 |  
540: 59 | 67 | 80 | 72 | 67 | 62 | 52 | 67 | 61 | 65 |  
550: 66 | 60 | 63 | 52 | 48 | 50 | 57 | 47 | 69 | 59 |  
560: 63 | 50 | 56 | 57 | 59 | 63 | 60 | 49 | 39 | 61 |  
570: 54 | 41 | 44 | 46 | 39 | 40 | 60 | 46 | 44 | 53 |  
580: 52 | 38 | 50 | 49 | 35 | 36 | 28 | 47 | 35 | 40 |  
590: 38 | 39 | 45 | 44 | 41 | 41 | 43 | 44 | 36 | 25 |  
600: 40 | 45 | 29 | 46 | 55 | 30 | 35 | 48 | 41 | 37 |  
610: 35 | 35 | 39 | 38 | 51 | 48 | 35 | 41 | 50 | 39 |  
620: 37 | 61 | 55 | 42 | 70 | 54 | 50 | 70 | 55 | 59 |  
630: 69 | 74 | 69 | 83 | 85 | 75 | 94 | 83 | 99 | 79 |  
640: 92 | 96 | 81 | 73 | 108 | 109 | 77 | 86 | 73 | 67 |  
650: 78 | 75 | 75 | 83 | 73 | 48 | 61 | 53 | 48 | 57 |  
660: 62 | 37 | 41 | 39 | 47 | 51 | 34 | 35 | 44 | 31 |  
670: 32 | 35 | 27 | 18 | 23 | 30 | 24 | 21 | 27 | 31 |  
680: 32 | 17 | 13 | 19 | 24 | 31 | 19 | 23 | 21 | 26 |  
690: 21 | 29 | 22 | 27 | 26 | 11 | 16 | 28 | 15 | 12 |  
700: 29 | 10 | 22 | 23 | 13 | 23 | 18 | 21 | 27 | 23 |  
710: 22 | 23 | 25 | 20 | 23 | 20 | 20 | 28 | 17 | 19 |  
720: 16 | 21 | 22 | 20 | 22 | 14 | 27 | 21 | 15 | 23 |  
730: 17 | 30 | 18 | 21 | 18 | 21 | 24 | 29 | 22 | 21 |  
740: 20 | 26 | 13 | 16 | 23 | 18 | 16 | 25 | 19 | 16 |  
750: 23 | 25 | 12 | 22 | 18 | 18 | 17 | 16 | 16 | 12 |  
760: 18 | 14 | 10 | 19 | 15 | 16 | 21 | 19 | 18 | 15 |  
770: 16 | 23 | 20 | 18 | 20 | 14 | 20 | 20 | 13 | 14 |  
780: 11 | 18 | 12 | 10 | 12 | 13 | 22 | 6 | 16 | 12 |  
790: 15 | 13 | 19 | 18 | 17 | 10 | 22 | 13 | 15 | 15 |  
800: 14 | 15 | 20 | 26 | 15 | 8 | 13 | 10 | 15 | 17 |  
810: 18 | 16 | 19 | 20 | 16 | 17 | 17 | 17 | 18 | 17 |  
820: 16 | 10 | 19 | 21 | 4 | 10 | 19 | 20 | 18 | 14 |  
830: 19 | 8 | 22 | 15 | 18 | 15 | 15 | 15 | 26 | 15 |  
840: 13 | 27 | 24 | 19 | 22 | 18 | 16 | 20 | 12 | 13 |  
850: 15 | 16 | 21 | 16 | 19 | 14 | 19 | 15 | 17 | 22 |  
860: 17 | 19 | 14 | 12 | 17 | 22 | 16 | 14 | 12 | 15 |  
870: 14 | 16 | 12 | 13 | 21 | 15 | 13 | 17 | 19 | 15 |  
880: 17 | 21 | 15 | 9 | 12 | 13 | 11 | 18 | 10 | 21 |  
890: 6 | 8 | 9 | 14 | 13 | 5 | 12 | 17 | 11 | 14 |  
900: 14 | 9 | 4 | 8 | 7 | 7 | 12 | 10 | 8 | 8 |  
910: 11 | 11 | 12 | 7 | 15 | 8 | 8 | 4 | 9 | 8 |  
920: 4 | 7 | 13 | 3 | 7 | 10 | 7 | 4 | 2 | 13 |  
930: 11 | 10 | 6 | 11 | 3 | 8 | 6 | 7 | 9 | 8 |  
940: 12 | 10 | 5 | 15 | 12 | 13 | 16 | 10 | 18 | 20 |  
950: 14 | 16 | 16 | 14 | 12 | 9 | 18 | 21 | 10 | 10 |  
960: 17 | 18 | 8 | 17 | 17 | 14 | 19 | 9 | 12 | 14 |  
970: 16 | 7 | 11 | 11 | 17 | 12 | 15 | 5 | 12 | 8 |  
980: 8 | 7 | 7 | 7 | 10 | 9 | 3 | 1 | 5 | 5 |  
990: 6 | 5 | 5 | 6 | 4 | 9 | 6 | 6 | 3 | 8 |

1000: 3 | 10 | 4 | 5 | 11 | 6 | 3 | 6 | 7 | 3 |  
1010: 5 | 6 | 5 | 2 | 5 | 8 | 4 | 4 | 5 | 4 |  
1020: 3 | 3 | 4 | 4 |