

DATE 20 JUN 78  
BCMB 8074  
IDECK 14

\$ = INCOMPLETE SPECTRUM  
+ = PILL NR DID NOT MATCH  
X = B-TAGWORD DID NOT MATCH  
S = PEAK SHIFT GREATER THAN 5 CH  
H = HALFWIDTH GREATER THAN 3.00  
C = 1 MIN CH DIFF GE 3  
C = 10 MIN STD - (NA-MN)/NA FLUX .LE.0. OR .GT. .08  
C = 20 MIN STD - SM FLUX DIFF BETWEEN STDS .GT. 5.0  
C = LONG STD - SC FLUX DIFF BETWEEN STDS .GT. 5.0  
C = 80 MIN STD - TA FLUX DIFF BETWEEN STDS .GT. 5.0

TAGWORD	PILL	ERROR	HALFWIDTH
628166	B	H	11.39
628164	A	H	9.35
628172	E	H	9.31
628168	C	H	8.73
628170	D	H	9.21
628174	F	H	9.41
628176	G	H	9.45
628178	H	H	9.25
628180	I	H	9.22
628183	J	H	9.24

8074 B BACK BACKGROUND  
GAMMA SPECTRUM-B 628156

WEIGHT OF STD = 100.0000 MG EOB = 0. MJD IRRADIATION TIME = 0. MIN DECAY TIME = .50 DAYS  
COUNT TIME = 78.444 MIN C/SEC BEG. = 0 C/SEC END = 0 START TIME = .50 MJD

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 11.39 CHANNELS

8074 B BACK BACKGROUND  
GAMMA SPECTRUM-B 628166

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 11.39 CHANNELS

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 11.39 CHANNELS  
 STD NUMBER 1 -628166 B SAMPLE WEIGHT = 100.00000 MG DEAD TIME = .04 0/0 EOB = 0 MJD  
 IRRADIATION TIME = .0 MIN DECAY TIME = .50 DAYS COUNT TIME = 78.444 MIN C/SEC BEG. = 0 C/SEC END = 0  
 START TIME = .50 MJD PILL THICKNESS = -.0 MILS SPECTRUM BEGAN 0/0/0 PST

NUCLIDE	HALF LIFE	GAMMA ENERGY	GAMMA INTENS.	COUNTS	CROSS SECTION	GROSS COUNTS	BKGD	APPR PEAK CHAN	REAL PEAK CHAN	FLUX(N/MIN-CM2)			CPM DECAY	MULT CORR.	ELEMENT	ELEMENT ABUNDANCE
INCOH	-0.	*0000	-0.	-0.	-0.	4798	1074	385	386	3.724 +/- .152E 3	-0.	1.00000	-.027	+/-	4.086E -9	
COH	-0.	*2311	-0.	-0.	-0.	649	420*0412	415		6.149 +/- -1.526E	2*0000000.0	1.00000	-.000	+/-	5.666E 19	
FE	-0.	*0640	-0.	-0.	-0.	114	111*0105	108		7.921 +/- *728E	2*0000000.0	1.00000	-.000	+/-	5.762E 17 FE	
CR	-0.	*0541	-0.	-0.	-0.	72	64*9784	88		3.881 +/- *407E	2*0000000.0	1.00000	-.000	+/-	3.136E 18 CR	
										FE PEAK IS AT CHANNEL 107.61 WITH HALFWIDTH OF 1.89. CR PEAK IS SUMMED STARTING -21.60 CHANNELS HIGHER.						
										CCOUNTS REMOVED FROM NEXT PEAK = 0 FE, ( .00120), 1 CR, ( .11000),						
MN	-0.	*0590	-0.	-0.	-0.	60	74*9874	98		5.133 +/- *.632E	2*0000000.0	.00120	.000	+/-	4.412E 18 MN	
										FE PEAK IS AT CHANNEL 107.61 WITH HALFWIDTH OF 1.89. MN PEAK IS SUMMED STARTING -12.60 CHANNELS HIGHER.						
TI	-0.	*0451	-0.	-0.	-0.	72	76*9604	71		7.129 +/- *.155E	1*0000000.0	1.00000	.000	+/-	8.537E 18 TI	
CA	-0.	*0369	-0.	-0.	-0.	85	127*9434	54		2.574 +/- *.862E	1*0000000.0	1.00000	.000	+/-	2.482E 20 CA	
V	-0.	*0495	-0.	-0.	-0.	78	71*9704	80		1.743 +/- *.060E	2*0000000.0	1.00000	-.000	+/-	6.112E 18 V	
ZN	-0.	*0863	-0.	-0.	-0.	60	42*0394	152		3.168 +/- *.291E	3*0000000.0	1.00000	-.000	+/-	8.643E 17 ZN	
CU	-0.	*0805	-0.	-0.	-0.	67	49*0284	140		2.297 +/- *.261E	3*0000000.0	1.00000	-.000	+/-	1.192E 18 CU	
PB	-0.	*1265	-0.	-0.	-0.	26	44*8090	234		1.584 +/- -9.146E	3*0000000.0	1.00000	.000	+/-	1.729E 18 PB	
RB	-0.	*1338	-0.	-0.	-0.	44	28*8210	245		6.138 +/- -5.146E	5*0000000.0	1.00000	-.000	+/-	3.966E 15 RB	
SR	-0.	*1415	-0.	-0.	-0.	34	38*8340	259		10.000 +/- .000E	-6*0000000.0	1.00000	.000	+/-	6.086E 25 SR	
										PEAK IS AT CHANNEL 419.57 WITH HALFWIDTH OF 11.33. SR PEAK IS SUMMED STARTING *66.00 CHANNELS HIGHER.						
										CCOUNTS REMOVED FROM NEXT PEAK = 3 RB, ( .16500),						
Y	-0.	*1493	-0.	-0.	-0.	17	38*8520	277		10.000 +/- .000E	-6*0000000.0	.16500	.000	+/-	3.597E 26 Y	
										PEAK IS AT CHANNEL 419.57 WITH HALFWIDTH OF 11.33. Y PEAK IS SUMMED STARTING *48.00 CHANNELS HIGHER.						
ZR	-0.	*1575	-0.	-0.	-0.	30	0 SR, ( .16500),			0 PB, ( .05500),						
										CCOUNTS REMOVED FROM NEXT PEAK = 0 SR, ( .16500), 0 PB, ( .05500),						
NB	-0.	*1659	-0.	-0.	-0.	44	38*8844	309		10.000 +/- .000E	-6*0000000.0	.15200	-.000	+/-	9.127E 25 NB	
										PEAK IS AT CHANNEL 419.57 WITH HALFWIDTH OF 11.33. NB PEAK IS SUMMED STARTING *15.60 CHANNELS HIGHER.						
MO	-0.	*1744	-0.	-0.	-0.	54	56*9050	331		10.000 +/- .000E	-6*0000000.0	.15900	.000	+/-	3.044E 25 MO	
										CCOUNTS REMOVED FROM NEXT PEAK = 0 ZR, ( .15900),						
NI	-0.	*0747	-0.	-0.	-0.	37	24*0200	129		1.069 +/- -6.169E	3*0000000.0	1.00000	-.000	+/-	1.851E 18 NI	
K	-0.	*0331	-0.	-0.	-0.	91	110*9365	47		7.921 +/- *728E	2*0000000.0	1.00000	.000	+/-	3.649E 18 K	
										FE PEAK IS AT CHANNEL 107.61 WITH HALFWIDTH OF 1.89. K PEAK IS SUMMED STARTING -63.50 CHANNELS HIGHER.						
										COUNT RATE CORRECTION FOR LAST ELEMENT = I						

8074 A STD POT 956  
GAMMA SPECTRUM-B 628164

WEIGHT OF STD = 100.0000 MG EOB = 0. MJD IRRADIATION TIME = 0. MIN DECAY TIME = 0. DAYS  
COUNT TIME = 78.062 MIN C/SEC BEG. = 0 C/SEC END = 0 START TIME = -0. MJD

THE IN (22.11KEV) PEAK HAS A HALFWIDTH OF 9.35CHANNELS

1 INCOH -0. \*0 000 1.000 +/-0. E 0 190943 54845 -25-0. 385 388 30 -0 17 132374.0 -0. 1.324 +/- .011E 5  
 1 COH -0. \*2311 1.000 +/-0. E 0 38033 26388 -8-0. \*0412 415 12 -0 9 879.7 -0. 8.797 +/- .342E 2  
 1 FE -0. \*0640 1.017 +/-0. E -2 3557 558 -16-0. \*0105 106 9 1 29 226.6 -0. 2.228 +/- .053E 4  
 1 CR -0. \*0541 30.000 +/- .490E -0 321 325 -5-0. \*9784 87 5 1 3 -.3 -0. -1.007 +/- -6.241E -2  
 1 CR -0. \*0541 30.000 +/- .490E -0 321 325 -5-0. \*9784 87 5 1 3 -.3 -0. -1.007 +/- -6.241E -2

FE PEAK IS AT CHANNEL 106.29 WITH HALFWIDTH OF 5.45. CR PEAK IS INTEGRATED BEGINNING EXACTLY -11000 CHANNELS  
 COUNTS REMOVED FROM NEXT PEAK = 4 FE, (.00120), 0 CR, (.11000),  
 1 MN -0. \*0590 30.000 +/- .648E -0 451 402 -6-0. \*9874 96 6 1 39 3.4 -0. .114 +/- .083E -0  
 5.45 MHZ PEAK IS INTEGRATED BEGINNING EXACTLY -12.60 CHANNELS HIGHER.

FE PEAK IS AT CHANNEL 106.29 WITH HALFWIDTH OF 5.45. MN PEAK IS INTEGRATED BEGINNING EXACTLY -12.00 CHANNELS HIGHER.  
 1 TI -0. \*0451 30.000 +/- .090E -0 434 358 -6-0. \*9604 69 6 -0 14 5.7 -0. .191 +/- .103E -0  
 FE PEAK IS AT CHANNEL 106.29 WITH HALFWIDTH OF 5.45. TI PEAK IS INTEGRATED BEGINNING EXACTLY -39.60 CHANNELS HIGHER.

FE PEAK IS AT CHANNEL 106.29 WITH HALFWIDTH OF 5.45. CA PEAK IS INTEGRATED BEGINNING EXACTLY -56.60 CHANNELS HIGHER.

1 V FE PEAK IS AT CHANNEL 106.29 WITH HALFWIDTH OF 5.45. V PEAK IS INTEGRATED BEGINNING EXACTLY -29.60 CHANNELS HIGHER.  
 1 ZN -0. \*03863 30.000 +/- 4.000E -0 522 434 -6-0. \*0394 150 10 -0 7 6.6 -0. .222 +/- .131E -0  
 1 V FE PEAK IS AT CHANNEL 106.29 WITH HALFWIDTH OF 5.45. ZN PEAK IS INTEGRATED BEGINNING EXACTLY 39.40 CHANNELS HIGHER.

FE PEAK IS AT CHANNEL 106.29 WITH HALFWIDTH OF 5.45. CU PEAK IS INTEGRATED BEGINNING EXACTLY 28.40 CHANNELS HIGHER.

1 PB -0. \*1265 30.000 +/- 2.000 E 5 PEAK IS AT CHANNEL 419.19 WITH HALFWIDTH OF 10.68. PB PEAK IS INTEGRATED BEGINNING EXACTLY \*91.00 CHANNELS HIGHER.  
 1 RB -0. \*1338 7.000 +/- 0. E -5 1314 645 -8-0. \*8210 244 9 0 6 50.5 -0. 7.220 +/- .715E 5  
 PEAK IS AT CHANNEL 419.19 WITH HALFWIDTH OF 10.68. RB PEAK IS INTEGRATED BEGINNING EXACTLY \*79.00 CHANNELS HIGHER.

PEAK IS AT CHANNEL 419.19 WITH HALFWIDTH OF 10.68. SR PEAK IS INTEGRATED BEGINNING EXACTLY \*66.00 CHANNELS HIGHER.

1 Y COUNTS REMOVED FROM NEXT PEAK = 110 SB, (-.10500), 41.4 -0. .318 +/- .029E -0  
-0. \*149313 0.000 +/- 1.400E -0 1144 486 -1-0. \*8520 276 11 4 -55 \*48.00 CHANNELS HIGHER.  
PEAK IS AT CHANNEL 419.19 WITH HALFWIDTH OF 10.68. Y PEAK IS INTEGRATED BEGINNING EXACTLY

1 ZR -0. \*1575 2.520 +/- -0. E -4 6900 709 -1 1.070\*8660 292 15 4 -70 442.1 -0. 1.754 +/- .033E 6  
 PEAK IS AT CHANNEL 419.19 WITH HALFWIDTH OF 10.68. ZR PEAK IS INTEGRATED BEGINNING EXACTLY \*34.00 CHANNELS HIGHER.

PEAK IS AT CHANNEL 419.19 WITH HALFWIDTH OF 10.68. NB PEAK IS INTEGRATED BEGINNING EXACTLY \*15.60 CHANNELS HIGHER.

COUNTS REMOVED FROM NEXT PEAK = 931 ZR, (-.15900),  
 1 MO -0. \*1744150.000 +/- 2.000E -0 2480 1632 -9-0. \*9050 330 13 -0 12 -6.2 -0. -4.155 +/- -5.720E -2  
 PEAK IS AT CHANNEL 419.19 WITH HALFWIDTH OF 10.68. MO PEAK IS INTEGRATED BEGINNING EXACTLY -95.00 CHANNELS HIGHER.  
 .292 +/- .090E -0

1 NI -0. \*0747 30.000 +/- 1.349E -0 348 232 -1-0. \*0200 128 4 1 3 5 30 50  
 FE PEAK IS AT CHANNEL 106.29 WITH HALFWIDTH OF 5.45. NI PEAK IS INTEGRATED BEGINNING EXACTLY 20.00 CHANNELS HIGHER.  
 1 K -0. \*0331 30.000 +/- 1.000E -0 423 453 -4-0. \*9365 45 6 -0 17 -2.3 -0. -7.554 +/- \*2.202E -2  
 K PEAK IS INTEGRATED BEGINNING EXACTLY -63.50 CHANNELS HIGHER.

FE PEAK IS AT CHANNEL 106.29 WITH HALFWIDTH OF 5.45. K PEAK IS INTEGRATED BEGINNING EXACTLY 6500 CHANNELS

8074 A STD POT 956  
GAMMA SPECTRUM-B 628164

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 9.35CHANNELS  
 STD NUMBER 1 -628164 A SAMPLE WEIGHT = 100.00000 MG DEAD TIME = .17 O/O EOB = 0. MJD  
 IRRADIATION TIME = 0. MIN DECAY TIME = .50 DAYS COUNT TIME = 78.062 MIN C/SEC BEG. = 0 C/SEC END = 0  
 START TIME = .50 MJD PILL THICKNESS = -.0. MILS SPECTRUM BEGAN 0/ 0/ 0 PST

8074 E STD POT 845 C  
GAMMA SPECTRUM-B 628172

WEIGHT OF STD = 100.00000 MG EOB = 0. MJD IRRADIATION TIME = 0. MIN DECAY TIME = 0. DAYS  
COUNT TIME = 78.664 MIN C/SEC BEG. = 0 C/SEC END = 0 START TIME = -0. MJD

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 9.31 CHANNELS

8074 E STD POT 845 0  
GAMMA SPECTRUM-B 628172

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 9.31CHANNELS  
STD NUMBER 2 -628172 E SAMPLE WEIGHT = 100.00000 MG DEAD TIME = .28 O/O EOB = 0. MJD  
IRRADIATION TIME = .50 MIN DECAY TIME = .50 DAYS COUNT TIME = 78.664 MIN C/SEC BEG. = 0 C/SEC END = 0  
START TIME = .50 MJD PILL THICKNESS = -.0. MILS SPECTRUM BEGAN 0/ 0/ 0 PST

8074 C PLAST THICK PLASTIC  
GAMMA SPECTRUM-B 628158

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 8.73CHANNELS  
STD NUMBER 1 2 -628172 E SAMPLE WEIGHT = -0. MG DEAD TIME = .22 0/0 EOB = 0. MJD  
IRRADIATION TIME = .50 MIN DECAY TIME = .50 DAYS COUNT TIME = 79.166 MIN C/SEC BEG. = 0 C/SEC END = 0  
START TIME = .50 MJD PILL THICKNESS = -0. MILS SPECTRUM BEGAN 0/ 0/ 0 PST

NUCLIDE	COUNTS REMOVED FROM PEAK				GROSS	BKGD	APPR	REAL	I	FLUX(N/MIN-CM2)	CPM	ELEMENT	ELEMENT
	COUNTS	EL	MULT	COUNTS	EL	MULT	COUNTS	COUNTS	PEAK	PEAK	X	EOB	ABUNDANCE
INCOH				433979	79980	385	388		1.691	+/- .008E 5	350275.0	.002	+/- 2.767E 3
COH				39197	30721*0412	415			9.978	+/- .200E 2	242.0	.243	+/- .014E -0
FE				707	666*0105	103			2.453	+/- .033E 4	1.2	4.772	+/- 4.940E -5 FE
CR				408	399*9784	83			1.202	+/- .016E 4	.3	2.138	+/- 6.540E -5 CR
	FE PEAK IS AT CHANNEL	102.91	WITH HALFWIDTH OF	1.31.	CR PEAK IS SUMMED	STARTING	-21.60	CHANNELS HIGHER.					
MN	0 FE	.00120	1 CR	.11000	441	456*9874	93		1.589	+/- .021E 4		-.5	-2.881 +/ - 6.115E -5 MN
	FE PEAK IS AT CHANNEL	102.91	WITH HALFWIDTH OF	1.31.	MN PEAK IS SUMMED	STARTING	-12.60	CHANNELS HIGHER.					
TI				500	563*9604	66			2.207	+/- .030E 3		-1.8	-8.148 +/ - 6.469E -4 TI
CA	FE PEAK IS AT CHANNEL	102.91	WITH HALFWIDTH OF	1.31.	TI PEAK IS SUMMED	STARTING	-39.60	CHANNELS HIGHER.					
V				612	632*9434	49	7.971	+/- .107E 2			-.6	-.716	+/- 1.263E -3 CA
ZN	FE PEAK IS AT CHANNEL	102.91	WITH HALFWIDTH OF	1.31.	CA PEAK IS SUMMED	STARTING	-56.60	CHANNELS HIGHER.					
CU				436	409*9704	75	5.396	+/- .072E 3			.8	1.429	+/- 1.475E -4 V
PB	FE PEAK IS AT CHANNEL	102.91	WITH HALFWIDTH OF	1.31.	V PEAK IS SUMMED	STARTING	-29.60	CHANNELS HIGHER.					
RB	PEAK IS AT CHANNEL	418.62	WITH HALFWIDTH OF	10.92.	PB PEAK IS SUMMED	STARTING	*91.00	CHANNELS HIGHER.					
				631	609*8210	244	6.968	+/- .424E 5			.6	.901	+/- 2.403E -6 RB
SR	PEAK IS AT CHANNEL	418.62	WITH HALFWIDTH OF	10.92.	RB PEAK IS SUMMED	STARTING	*79.00	CHANNELS HIGHER.					
				740	717*8340	258	1.076	+/- .020E 6			.7	.610	+/- 1.382E -6 SR
Y	PEAK IS AT CHANNEL	418.62	WITH HALFWIDTH OF	10.92.	SR PEAK IS SUMMED	STARTING	*66.00	CHANNELS HIGHER.					
ZR	4 RB	.16500	0	0.	748	717*8520	276	1.506	+/- .028E 6		.8	.519	+/- 1.005E -6 Y
	PEAK IS AT CHANNEL	418.62	WITH HALFWIDTH OF	10.92.	Y PEAK IS SUMMED	STARTING	*48.00	CHANNELS HIGHER.					
NB	4 SR	.16500	5 PB	.05500	1083	995*8660	292	1.727	+/- .020E 6		2.3	1.305	+/- 1.188E -6 ZR
MO	PEAK IS AT CHANNEL	418.62	WITH HALFWIDTH OF	10.92.	ZR PEAK IS SUMMED	STARTING	*34.00	CHANNELS HIGHER.					
NI	4 Y	.15200	0	0.	994	955*8844	308	2.418	+/- .027E 6		1.0	4.113	+/- 8.125E -7 NB
	PEAK IS AT CHANNEL	418.62	WITH HALFWIDTH OF	10.92.	NB PEAK IS SUMMED	STARTING	*15.60	CHANNELS HIGHER.					
K	13 ZR	.15900	0	0.	1912	2429*9050	330	3.454	+/- .039E 6		-15.1	-4.377	+/- 1.087E -6 MO
	PEAK IS AT CHANNEL	418.62	WITH HALFWIDTH OF	10.92.	MO PEAK IS SUMMED	STARTING	*95.00	CHANNELS HIGHER.					
	COUNT RATE CORRECTION FOR LAST ELEMENT = I			256	272*0200	124	3.309	+/- .044E 4			-.5	-1.381	+/- 3.163E -5 NI
	FE PEAK IS AT CHANNEL	102.91	WITH HALFWIDTH OF	1.31.	NI PEAK IS SUMMED	STARTING	20.00	CHANNELS HIGHER.					
				590	604*9365	42	2.453	+/- .033E 4			-.4	-1.630	+/- 6.521E -5 K
	FE PEAK IS AT CHANNEL	102.91	WITH HALFWIDTH OF	1.31.	K PEAK IS SUMMED	STARTING	-63.50	CHANNELS HIGHER.					

8074 D LYLN-1 1956 W  
GAMMA SPECTRUM-B 628170

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 9.21 CHANNELS

THE IN (23.11KEV) PEAK HAS A HALF WIDTH OF 7.6 CHANNELS  
STD NUMBER 1 2 -628172 E SAMPLE WEIGHT = -0. MG DEAD TIME = .22 O/O EOB = 0. MJD  
IRRADIATION TIME = 0. MIN DECAY TIME = .50 DAYS COUNT TIME = 78.584 MIN C/SEC BEG. = 0 C/SEC END = 0  
START TIME = .50 MJD PILL THICKNESS = -0. MILS SPECTRUM BEGAN 0/0/0 PST

8074 F BUR-55 845 S  
GAMMA SPECTRUM-B 628174

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 9.41CHANNELS  
 STD NUMBER 1 2 -628172 E SAMPLE WEIGHT = -.0. MG DEAD TIME = .21 0/0 EOB = 0. MJD  
 IRRADIATION TIME = .50 MIN DECAY TIME = .50 DAYS COUNT TIME = 78.096 MIN C/SEC BEG. = 0 C/SEC END = 0  
 START TIME = .50 MJD PILL THICKNESS = -.0. MILS SPECTRUM BEGAN 0/ 0/ 0 PST

NUCLIDE	COUNTS REMOVED FROM PEAK				GROSS	BKGD	APPR	REAL	I	FLUX(N/MIN-CM2)	CPM	ELEMENT	ELEMENT
	COUNTS	EL	MULT	COUNTS	EL	MULT	COUNTS	COUNTS	PEAK	PEAK	X	EOB	ABUNDANCE
INCOH				293620	78961	385	388		1.691	+/- .008E	5	210935.0	.001 +/- 1.595E 3
COH				60063	37628*0412	415			9.978	+/- .200E	2	1063.6	1.066 +/- .034E 0
FE				3252	638*0105	106			2.453	+/- .033E	4	123.9	5.053 +/- .147E -3 FE
CR				391	381*9784	87			1.202	+/- .016E	4	.5	.394 +/- 1.069E -4 CR
MN	FE PEAK IS AT CHANNEL 106.14 WITH HALFWIDTH OF 3 FE .00120	1 CR .11000		5.22.	CR PEAK IS SUMMED STARTING -21.60 CHANNELS HIGHER.								
TI	FE PEAK IS AT CHANNEL 106.14 WITH HALFWIDTH OF 5.22.			524	449*9874	96	1.589	+/- .021E	4	3.4	2.111	+/- 1.055E -4 MN	
CA	FE PEAK IS AT CHANNEL 106.14 WITH HALFWIDTH OF 5.22.			5.22.	MN PEAK IS SUMMED STARTING -12.60 CHANNELS HIGHER.								
V	FE PEAK IS AT CHANNEL 106.14 WITH HALFWIDTH OF 5.22.			478	451*9604	69	2.207	+/- .030E	3	1.3	5.799	+/- 9.665E -4 TI	
ZN	FE PEAK IS AT CHANNEL 106.14 WITH HALFWIDTH OF 5.22.			593	487*9434	52	7.971	+/- .107E	2	5.0	6.304	+/- 1.955E -3 CA	
CU	FE PEAK IS AT CHANNEL 106.14 WITH HALFWIDTH OF 5.22.			365	376*9704	79	5.396	+/- .072E	3	-.5	-.966	+/- 2.288E -4 V	
PB	FE PEAK IS AT CHANNEL 106.14 WITH HALFWIDTH OF 10.92.	PEAK IS AT CHANNEL 419.10 WITH HALFWIDTH OF 10.92.		1054	2184*8090	233	4.905	+/- .066E	4	-53.6	-1.092	+/- .112E -3 PB	
RB	PEAK IS AT CHANNEL 419.10 WITH HALFWIDTH OF 10.92.	PEAK IS AT CHANNEL 419.10 WITH HALFWIDTH OF 10.92.		3684	1302*8210	244	6.968	+/- .424E	5	112.9	1.621	+/- .120E -4 RB	
SR	PEAK IS AT CHANNEL 419.10 WITH HALFWIDTH OF 10.92.	PEAK IS AT CHANNEL 419.10 WITH HALFWIDTH OF 10.92.		3745	640*8340	258	1.076	+/- .020E	6	147.2	1.368	+/- .042E -4 SR	
Y	393 RB .16500	0 0.		1688	640*8520	276	1.506	+/- .028E	6	31.1	2.061	+/- .196E -5 Y	
ZR	PEAK IS AT CHANNEL 419.10 WITH HALFWIDTH OF 10.92.	PEAK IS AT CHANNEL 419.10 WITH HALFWIDTH OF 10.92.		5156	934*8660	292	1.727	+/- .020E	6	175.9	1.018	+/- .029E -4 ZR	
NB	512 SR .16500	0 PB .05500		1580	896*8844	309	2.418	+/- .027E	6	27.7	1.146	+/- .141E -5 NB	
MO	100 Y .15200	0 0.		2821	2591*9050	330	3.454	+/- .039E	6	-17.1	-4.939	+/- 1.918E -6 MO	
NI	590 ZR .15900	0 0.		234	244*0200	128	3.309	+/- .044E	4	-.5	-1.433	+/- 4.984E -5 NI	
K	PEAK IS AT CHANNEL 419.10 WITH HALFWIDTH OF 10.92.	FE PEAK IS AT CHANNEL 106.14 WITH HALFWIDTH OF 5.22.		563	484*9365	45	2.453	+/- .033E	4	3.7	1.527	+/- .982E -4 K	
	COUNT RATE CORRECTION FOR LAST ELEMENT = I			5.22.	K PEAK IS SUMMED STARTING -63.50 CHANNELS HIGHER.								

8074 G BUR-56 845 T  
GAMMA SPECTRUM-B 628176

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 9.45 CHANNELS  
 STD NUMBER 1 2 -628172 E SAMPLE WEIGHT = -0. MG DEAD TIME = .18 0/0 EOB = 0. MJD  
 IRRADIATION TIME = .50 MIN DECAY TIME = .50 DAYS COUNT TIME = 78.475 MIN C/SEC BEG. = 0 C/SEC END = 0  
 START TIME = .50 MJD PILL THICKNESS = -0. MILS SPECTRUM BEGAN 0/ 0/ 0 PST

NUCLIDE	COUNTS REMOVED FROM PEAK				GROSS	BKGD	APPR	REAL	I	FLUX(N/MIN-CM2)	CPM	ELEMENT	ELEMENT		
	COUNTS	EL	MULT	COUNTS	EL	MULT	COUNTS	COUNTS	PEAK	PEAK	X	EOB	ABUNDANCE		
INCOH					196535	50299	385	388	1.691	+/- .008E	5	142512.0	.008	+/- 8.628E 2	
CCH					41281	26178*0412	412	415	9.978	+/- .200E	2	1059.8	1.062	+/- .039E 0	
FE					3769	424*0105	105	106	2.453	+/- .033E	4	234.7	9.570	+/- .240E -3 FE	
CR					271	263*9784	86	86	1.202	+/- .016E	4	.6	.467	+/- 1.309E -4 CR	
MN	FE PEAK IS AT CHANNEL 106.10 WITH HALFWIDTH OF 4 FE .00120	1 CR .11000			5.04.	CR PEAK IS SUMMED STARTING -21.60 CHANNELS HIGHER.									
TI	FE PEAK IS AT CHANNEL 106.10 WITH HALFWIDTH OF				494	299*9874	96	1.589	+/- .021E	4	13.3	8.393	+/- 1.382E -4 MN		
CA	FE PEAK IS AT CHANNEL 106.10 WITH HALFWIDTH OF				385	360*9604	69	2.207	+/- .030E	3	1.8	.795	+/- 1.298E -3 TI		
V	FE PEAK IS AT CHANNEL 106.10 WITH HALFWIDTH OF				439	391*9434	52	7.971	+/- .107E	2	3.4	4.225	+/- 2.539E -3 CA		
ZN	FE PEAK IS AT CHANNEL 106.10 WITH HALFWIDTH OF				5.04.	CA PEAK IS SUMMED STARTING -56.60 CHANNELS HIGHER.									
CU	FE PEAK IS AT CHANNEL 106.10 WITH HALFWIDTH OF				486	428*0394	150	9.811	+/- .131E	4	4.1	4.148	+/- 3.666E -5 ZN		
PB	PEAK IS AT CHANNEL 419.24 WITH HALFWIDTH OF 10.77.	PB PEAK IS SUMMED STARTING *91.00 CHANNELS HIGHER.			5.04.	ZN PEAK IS SUMMED STARTING 39.40 CHANNELS HIGHER.									
RB	PEAK IS AT CHANNEL 419.24 WITH HALFWIDTH OF 10.77.	PB PEAK IS SUMMED STARTING *79.00 CHANNELS HIGHER.			2217	788*8210	244	6.968	+/- .424E	5	100.3	1.439	+/- .117E -4 RB		
SR	PEAK IS AT CHANNEL 419.24 WITH HALFWIDTH OF 10.77.	SR PEAK IS SUMMED STARTING *79.00 CHANNELS HIGHER.			1906	412*8340	258	1.076	+/- .020E	6	104.8	9.743	+/- .409E -5 SR		
Y	PEAK IS AT CHANNEL 419.24 WITH HALFWIDTH OF 10.77.	SR PEAK IS SUMMED STARTING *66.00 CHANNELS HIGHER.			1492	412*8520	276	1.506	+/- .028E	6	59.2	3.933	+/- .258E -5 Y		
ZR	236 RB .16500	0 0.			5.04.	Y PEAK IS SUMMED STARTING *48.00 CHANNELS HIGHER.									
NB	PEAK IS AT CHANNEL 419.24 WITH HALFWIDTH OF 10.77.	ZR PEAK IS SUMMED STARTING *34.00 CHANNELS HIGHER.			247 SR .16500	0 PB .05500	3870	574*8660	292	1.727	+/- .020E	6	214.0	1.239	+/- .036E -4 ZR
MO	128 Y .15200	0 0.			PEAK IS AT CHANNEL 419.24 WITH HALFWIDTH OF 10.77.	NB PEAK IS SUMMED STARTING *15.60 CHANNELS HIGHER.									
NI	485 ZR .15900	0 0.			1122	550*8844	309	2.418	+/- .027E	6	31.1	1.288	+/- .168E -5 NB		
K	PEAK IS AT CHANNEL 419.24 WITH HALFWIDTH OF 10.77.	MO PEAK IS SUMMED STARTING -95.00 CHANNELS HIGHER.			1918	1807*9050	330	3.454	+/- .039E	6	-26.2	-7.595	+/- 2.368E -6 MO		
					162	136*0200	128	3.309	+/- .044E	4	1.8	5.514	+/- 5.636E -5 NI		
	FE PEAK IS AT CHANNEL 106.10 WITH HALFWIDTH OF	NI PEAK IS SUMMED STARTING 20.00 CHANNELS HIGHER.			5.04.	K PEAK IS SUMMED STARTING -63.50 CHANNELS HIGHER.									
	COUNT RATE CORRECTION FOR LAST ELEMENT = I				417	360*9365	45	2.453	+/- .033E	4	4.0	1.631	+/- 1.257E -4 K		

8074 H BUR-57 845 I  
GAMMA SPECTRUM-B 628178

THE IN<sub>+</sub> (23.11KEV) PEAK HAS A HALFWIDTH OF 9.25 CHANNELS

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 9.25 CHANNELS  
 STD NUMBER 1 2 -628172 E SAMPLE WEIGHT = -0. MG DEAD TIME = .15 O/O EOB = 0. MJD  
 IRRADIATION TIME = J. MIN DECAY TIME = .50 DAYS COUNT TIME = 79.455 MIN C/SEC BEG. = 0 C/SEC END = 0  
 START TIME = .50 MJD PILL THICKNESS = -0. MILS SPECTRUM BEGAN 0/ 0/ 0 PST

8074 I BUR-58 845 V  
GAMMA SPECTRUM-B 628180

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 9.22CHANNELS  
STD NUMBER 1 2 -628172 E SAMPLE WEIGHT = -.0. MG DEAD TIME = .13 O/O EOB = 0. MJD  
IRRADIATION TIME = .0. MIN DECAY TIME = .50 DAYS COUNT TIME = 78.847 MIN C/SEC BEG. = 0 C/SEC END = 0  
START TIME = .50 MJD PILL THICKNESS = -.0. MILS SPECTRUM BEGAN 0/ 0/ 0 PST

8074 J BUR-59 845 W  
GAMMA SPECTRUM-B 628183

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 9.24 CHANNELS  
 STD NUMBER 1 2 -628172 E SAMPLE WEIGHT = -0. MG DEAD TIME = .25 0/0 EOB = 0. MJD  
 IRRADIATION TIME = .50 MIN DECAY TIME = .50 DAYS COUNT TIME = 78.438 MIN C/SEC BEG. = 0 C/SEC END = 0  
 START TIME = .50 MJD PILL THICKNESS = -0. MILS SPECTRUM BEGAN 0/ 0/ 0 PST

NUCLIDE	COUNTS REMOVED FROM PEAK				GROSS	BKGD	APPR	REAL	I	FLUX(N/MIN-CM2)	CPM	ELEMENT	ELEMENT	
	COUNTS	EL	MULT	COUNTS	EL	MULT	COUNTS	COUNTS	PEAK	PEAK	X	EOB	ABUNDANCE	
INCOH				265921	69953	385	388		1.691	+/- .008E 5	192244.0	.001	+/- 1.373E 3	
COH				55420	34508*0412	415			9.978	+/- .200E 2	1087.8	1.090	+/- .035E 0	
FE				5258	553*0105	106			2.453	+/- .033E 4	244.7	9.979	+/- .223E -3 FE	
CR				345	333*9784	86			1.202	+/- .016E 4	.6	.519	+/- 1.094E -4 CR	
MN	FE PEAK IS AT CHANNEL 106.08 WITH HALFWIDTH OF 6 FE .0120	1 CR .11000		574	385*9874	96	1.589	+/- .021E 4			9.5	5.958	+/- 1.133E -4 MN	
TI	FE PEAK IS AT CHANNEL 106.08 WITH HALFWIDTH OF			5.43.	MN PEAK IS SUMMED STARTING -12.60 CHANNELS HIGHER.									
CA	FE PEAK IS AT CHANNEL 106.08 WITH HALFWIDTH OF			443	385*9604	69	2.207	+/- .030E 3			3.0	1.367	+/- .992E -3 TI	
V	FE PEAK IS AT CHANNEL 106.08 WITH HALFWIDTH OF			5.43.	TI PEAK IS SUMMED STARTING -39.60 CHANNELS HIGHER.									
ZN	FE PEAK IS AT CHANNEL 106.08 WITH HALFWIDTH OF			515	464*9434	52	7.971	+/- .107E 2			2.7	3.328	+/- 2.042E -3 CA	
CU	FE PEAK IS AT CHANNEL 106.08 WITH HALFWIDTH OF			5.43.	CA PEAK IS SUMMED STARTING -56.60 CHANNELS HIGHER.									
PB	PEAK IS AT CHANNEL 419.11 WITH HALFWIDTH OF 11.23.	PB PEAK IS SUMMED STARTING *91.00 CHANNELS HIGHER.		346	345*9704	78	5.396	+/- .072E 3			.1	.096	+/- 2.426E -4 V	
RB	PEAK IS AT CHANNEL 419.11 WITH HALFWIDTH OF 11.23.	RB PEAK IS SUMMED STARTING *79.00 CHANNELS HIGHER.		5.43.	ZN PEAK IS SUMMED STARTING 39.40 CHANNELS HIGHER.									
SR	PEAK IS AT CHANNEL 419.11 WITH HALFWIDTH OF 11.23.	SR PEAK IS SUMMED STARTING 28.40 CHANNELS HIGHER.		884	1843*8090	233	4.905	+/- .066E 4			-49.9	-1.017	+/- .112E -3 PB	
Y	335 RB .16500	0 0.		3076	1045*8210	244	6.968	+/- .424E 5			105.6	1.516	+/- .114E -4 RB	
ZR	PEAK IS AT CHANNEL 419.11 WITH HALFWIDTH OF 11.23.	ZR PEAK IS SUMMED STARTING *34.00 CHANNELS HIGHER.		5.43.	Y PEAK IS SUMMED STARTING *48.00 CHANNELS HIGHER.									
NB	338 SR .16500	0 PB .05500		2617	566*8340	258	1.076	+/- .020E 6			215.9	1.250	+/- .032E -4 ZR	
MO	PEAK IS AT CHANNEL 419.11 WITH HALFWIDTH OF 11.23.	MO PEAK IS SUMMED STARTING -95.00 CHANNELS HIGHER.		180 Y .15200	0 0.	1496	762*8844	309	2.418	+/- .027E 6		28.8	1.192	+/- .145E -5 NB
NI	660 ZR .15900	0 0.		2743	2219*9050	330	3.454	+/- .039E 6			-7.1	-2.047	+/- 1.963E -6 MO	
K	PEAK IS AT CHANNEL 419.11 WITH HALFWIDTH OF 11.23.	K PEAK IS SUMMED STARTING -63.50 CHANNELS HIGHER.		5.43.	NI PEAK IS SUMMED STARTING 20.00 CHANNELS HIGHER.						.9	2.673	+/- 5.207E -5 NI	
	COUNT RATE CORRECTION FOR LAST ELEMENT = I			558	499*9365	45	2.453	+/- .033E 4			3.1	1.251	+/- 1.098E -4 K	

14 8074 1  
A1628 S65 C14

1

1

1

z

c

v

s

g

l

b

6

01

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

INCOH		100000	385	17	-25	30	1.0	0	
COH		102311	200412	9	-8	12	1.0	0	
FE	FE	100640	200105	29	-16	9	1	1.017	
CR	CR	100541	2099784	3	-5	5	1	30.	
MN	MN	100590	2099874	39	-6	6	1	30.	
						.0012	.648	2 3	
4	TI	.11	100451	2099604	14	-6	6	30.	.090
CA	CA	100369	2099434	11	-13	6	1	30.	.0325
V	V	100495	2099704	4	-4	5	1	30.	.22
ZN	ZN	100863	2100394	7	-6	10	30.	4.	
CU	CU	100805	2100284	5	-6	9	30.	2.9	
PB	PB	101265	1098090	8	-8	11	30.	2.	
RB	RB	101338	1098210	6	-8	9	0	7.0	
SR	SR	101415	1098340	-37	-1	11	4	1.45	
Y	Y	101493	1098520	-55	-1	11	4	130.	
ZR	ZR	101575	1098660	-70	-1	1.07	15	4	
						2.52		-4	
						.165		213	
11	NB	.055	101659	1098844	-86	-1	1.4	11	4
MO	MO	101744	1099050	12	-9	13	150.	1.4	
NI	NI	100747	2100200	5	-1	4	1	30.	
K	K	100331	2099365	17	-4	6	30.00	1.0	

X

628166	517		100.	0.5	3
8074	B	BACK	BACKGROUND		
628164	517		100.		3
8074	A	STD POT	956 D		
628172	517		100.		3
8074	E	STD POT	845 C		

628168	5	17	3		
8074	C	PLAST	THICK PLASTIC	1	2

628170	3				
8074	D	LYLN-1	(956 W)		

628174	3				
8074	F	EUR-55	845 S		

628176	3				
8074	G	BUR-56	845 T		

628178	3				
--------	---	--	--	--	--

8074 H BUR-57 845 U

628180  
8074 I BUR-58 845 V

3

628183  
8074 J BUR-59 845 W

3