

ME-07

DATE 20 JUN 78
BOMB 8074
IDECK 13

\$ = 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	PPM BARIUM
629003	B	H	0.
629001	A	H	713.00
629008	E	H	713.00
629005	C	H	.53
629006	D	H	454.79
629009	F	H	1044.62
629011	G	H	1278.79
629013	H	H	1029.45
629014	I	H	1038.16
629016	J	H	1250.29

8074 B BACK BACKGROUND
GAMMA SPECTRUM-B 629003

WEIGHT OF STD = 100.00000 MG EOB = 0. MJD IRRADIATION TIME = 0. MIN DECAY TIME = .50 DAYS
COUNT TIME = 39.742 MIN C/SEC BEG. = 0 C/SEC END = 0 START TIME = .50 MJD

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 6.89CHANNELS

STANDARD HALF GAMMA LIFE ENERGY DAYS KEV	ELEMENT FRACTION OF STANDARD	GROSS COUNTS	BKGD COUNTS	BKGD OPT. MULT.	APPR PEAK CH	REAL PEAK CH	N	I	APPROX CPM	ISOTOPE ABUND. O/O	CALCULATED FLUX
1 BKSCAT-0.	*0060 1.000 +/-0.	E -1	3973	0 -41 .000	489 486	27 2 13	3973.0	-0.	3.973 +/-	.063E 4	
1 SN -0.	*0025 1.000 +/-0.	E -1	10092	231 -16-0.	*0233 236	7 0 7	24820.0	-0.	2.482 +/-	.047E 5	
1 BA -0.	*0032 7.130 +/-0.	E -4	89	86 -7-0.	*0630 306	14 1 8	7.6	-0.	1.059 +/-	5.988E 4	
SN PEAK IS AT CHANNEL 236.54 WITH HALFWIDTH OF 5.27. BA PEAK IS INTEGRATED BEGINNING EXACTLY 63.00 CHANNELS HIGHER.											
1 LA -0.	*0033 4.490 +/-0.	E -5	91	66 -6-0.	*0780 320	11 0 6	62.9	-0.	1.401 +/-	1.195E 6	
SN PEAK IS AT CHANNEL 236.54 WITH HALFWIDTH OF 5.27. LA PEAK IS INTEGRATED BEGINNING EXACTLY 78.00 CHANNELS HIGHER.											
1 CE -0.	*0035 8.030 +/-0.	E -5	116	130 -8-0.	*0900 333	14 0 9	-35.2	-0.	-4.388 +/-	-9.961E 5	
SN PEAK IS AT CHANNEL 236.54 WITH HALFWIDTH OF 5.27. CE PEAK IS INTEGRATED BEGINNING EXACTLY 90.00 CHANNELS HIGHER.											

8074 B BACK BACKGROUND
GAMMA SPECTRUM-B 629003

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 6.89CHANNELS
STD NUMBER 1 -629003 B SAMPLE WEIGHT = 100.00000 MG DEAD TIME = .05 O/O EOB = 0. MJD
IRRADIATION TIME = 0. MIN DECAY TIME = .50 DAYS COUNT TIME = 39.742 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	COUNT INTENS.	CROSS SECT.	GROSS COUNTS	BKGD APPR	REAL PEAK	FLUX(N/MIN-CM ²)	CPM DECAY	MULT	ELEMENT	ELEMENT ABUNDANCE
	DAYS	KEV	O/O	O/O	BARNs	CHAN	CHAN		CORR.			
BKSCAT	-0.	*0060	-0.	-0.	-0.	3973	0 489	486	3.973 +/- .063E 4	-.0	1.00000	-.025 +/- 1.587E-10
SN	-0.	*0025	-0.	-0.	-0.	10092	231*0233	236	2.482 +/- .047E	5*0000000.0	1.00000	-.000 +/- 2.504E 18 SN
BA	-0.	*0032	-0.	-0.	-0.	89	86*0630	306	1.059 +/- 5.988E	4*0000000.0	1.00000	-.000 +/- 1.786E 16 BA
LA	-0.	*0033	-0.	-0.	-0.	91	66*0780	320	1.401 +/- 1.195E	6*0000000.0	1.00000	-.000 +/- 1.124E 15 LA
CE	-0.	*0035	-0.	-0.	-0.	116	130*0900	333	10.000 +/- .000E	-6*0000000.0	1.00000	.000 +/- 8.824E 25 CE
SN PEAK IS AT CHANNEL 236.54 WITH HALFWIDTH OF 5.27. BA PEAK IS SUMMED STARTING 63.00 CHANNELS HIGHER.												
LA PEAK IS AT CHANNEL 236.54 WITH HALFWIDTH OF 5.27. LA PEAK IS SUMMED STARTING 78.00 CHANNELS HIGHER.												
CE PEAK IS AT CHANNEL 236.54 WITH HALFWIDTH OF 5.27. CE PEAK IS SUMMED STARTING 90.00 CHANNELS HIGHER.												
COUNT RATE CORRECTION FOR LAST ELEMENT = I												

8074 A STD POT 956 D
GAMMA SPECTRUM-B 629001

WEIGHT OF STD = 100.00000 MG EOB = 0. MJD IRRADIATION TIME = 0. MIN DECAY TIME = 0. DAYS
COUNT TIME = 39.988 MIN C/SEC BEG. = 0 C/SEC END = 0 START TIME = -0. MJD

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 7.04 CHANNELS

STANDARD HALF GAMMA LIFE ENERGY DAYS KEV	ELEMENT FRACTION OF STANDARD	GROSS COUNTS	BKGD COUNTS	BKGD OPT. MULT.	APPR PEAK CHAN	REAL PEAK CHAN	N	I	APPROX CPM	ISOTOPE ABUND. O/O	CALCULATED FLUX
1 BKSCAT-0.	*0060 1.000 +/-0.	E -1	103274	0 -41 .000	489	492 27	2	13	99301.0	-0.	9.930 +/- .032E 5
1 SN -0.	*0025 1.000 +/-0.	E -1	35941	1296 -16-0.	*0233	236 7	0	7	3488.9	-0.	3.489 +/- .023E 4
1 BA -0.	*0032 7.130 +/-0.	E -4	7929	1109 -7-0.	*0630	306 14	1	8	686.8	-0.	9.633 +/- .148E 5
SN PEAK IS AT CHANNEL 236.51 WITH HALFWIDTH OF 5.12. BA PEAK IS INTEGRATED BEGINNING EXACTLY 63.00 CHANNELS HIGHER.											
1 LA -0.	*0033 4.490 +/-0.	E -5	964	676 -6-0.	*0780	320 11	0	6	29.0	-0.	6.459 +/- 1.535E 5
SN PEAK IS AT CHANNEL 236.51 WITH HALFWIDTH OF 5.12. LA PEAK IS INTEGRATED BEGINNING EXACTLY 78.00 CHANNELS HIGHER.											
1 CE -0.	*0035 8.030 +/-0.	E -5	1546	881 -8-0.	*0900	333 14	0	9	67.0	-0.	8.340 +/- 1.103E 5
SN PEAK IS AT CHANNEL 236.51 WITH HALFWIDTH OF 5.12. CE PEAK IS INTEGRATED BEGINNING EXACTLY 90.00 CHANNELS HIGHER.											

8074 A STD POT 956 L
GAMMA SPECTRUM-B 629001

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 7.04CHANNELS
 STD NUMBER 1 -629001 A SAMPLE WEIGHT = 100.00000 MG DEAD TIME = .38 O/O EOB = 0. MJD
 IRRADIATION TIME = 0. MIN DECAY TIME = .50 DAYS COUNT TIME = 39.988 MIN C/SEC BEG. = 0 C/SEC END = 0
 START TIME = .50 MJD PILL THICKNESS = -.0. MILS SPECTRUM BEGAN 07/07 0 PST

NUCLIDE	HALF LIFE	GAMMA ENERGY	GAMMA INTENS.	COUNT EFF.	CROSS SECTION	GROSS COUNTS	BKGD PEAK	APPR PEAK	REAL PEAK	FLUX(N/MIN-CM2)	CPM DECAY	MULT	ELEMENT	ELEMENT ABUNDANCE
	DAYS	KEV	O/O	O/O	BARNs		CHAN	CHAN			DECAY CORR.			
BKSCAT	-0.	*0060	-0.	-0.	-0.	103274	0	489	492	9.930 +/- .032E 5	99301.0	1.00000	.010 +/- .014E 1	
SN	-0.	*0025	-0.	-0.	-0.	35941	1296*0233	236	3.489 +/- .023E 4	3488.9	1.00000	10.000 +/- .094E -2	SN	
BA	-0.	*0032	-0.	-0.	-0.	7929	1109*0630	306	9.633 +/- .148E 5	686.8	1.00000	7.130 +/- .155E -4	BA	
LA	-0.	*0033	-0.	-0.	-0.	964	676*0780	320	6.459 +/- 1.535E 5	29.0	1.00000	4.490 +/- 1.509E -5	LA	
CE	-0.	*0035	-0.	-0.	-0.	1546	881*0900	333	8.340 +/- 1.103E 5	67.0	1.00000	8.030 +/- 1.502E -5	CE	
SN PEAK IS AT CHANNEL 236.51 WITH HALFWIDTH OF 5.12. BA PEAK IS SUMMED STARTING 63.00 CHANNELS HIGHER.														
LA PEAK IS AT CHANNEL 236.51 WITH HALFWIDTH OF 5.12. LA PEAK IS SUMMED STARTING 78.00 CHANNELS HIGHER.														
CE PEAK IS AT CHANNEL 236.51 WITH HALFWIDTH OF 5.12. CE PEAK IS SUMMED STARTING 90.00 CHANNELS HIGHER.														
COUNT RATE CORRECTION FOR LAST ELEMENT = I														

8074 E STD POT 845 C
GAMMA SPECTRUM-B 629008

WEIGHT OF STD = 100.00000 MG EOB = 0. MJD IRRADIATION TIME = 0. MIN DECAY TIME = 0. DAYS
COUNT TIME = 39.361 MIN C/SEC BEG. = 0 C/SEC END = 0 START TIME = -0. MJD

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 6.90CHANNELS

STANDARD HALF GAMMA LIFE ENERGY	ELEMENT FRACTION OF STANDARD	GROSS COUNTS	BKGD COUNTS	BKGD OPT.	APPR MULT.	REAL PEAK CH	N I APPROX CPM	ISOTOPE	CALCULATED FLUX
DAYS KEV						CHAN	CHAN SP	BKGD CHAN	ABUND. O/O
2 BKSCAT-0.	*0060 1.000 +/-0.	E -1	86097	0 -41	.000	489 491	27 2 13	82124.0 -0.	8.212 +/- .029E 5
2 SN -0.	*0025 1.000 +/-0.	E -1	32959	1129 -16-0.	*0233	236 7 0	7	3875.8 -0.	3.876 +/- .027E 4
2 BA -0.	*0032 7.130 +/-0.	E -4	6154	856 -7-0.	*0630	306 14 1	8	645.1 -0.	9.048 +/- .158E 5
	SN PEAK IS AT CHANNEL	236.36 WITH HALFWIDTH OF		5.18.	BA PEAK IS INTEGRATED BEGINNING EXACTLY			63.00 CHANNELS HIGHER.	
2 LA -0.	*0033 4.490 +/-0.	E -5	804	627 -6-0.	*0780	319 11 0	6	21.6 -0.	4.800 +/- 1.769E 5
	SN PEAK IS AT CHANNEL	236.36 WITH HALFWIDTH OF		5.18.	LA PEAK IS INTEGRATED BEGINNING EXACTLY			78.00 CHANNELS HIGHER.	
2 CE -0.	*0035 8.030 +/-0.	E -5	1210	679 -8-0.	*0900	333 14 0	9	64.7 -0.	8.052 +/- 1.172E 5
	SN PEAK IS AT CHANNEL	236.36 WITH HALFWIDTH OF		5.18.	CE PEAK IS INTEGRATED BEGINNING EXACTLY			90.00 CHANNELS HIGHER.	

8074 E STD POT 845
GAMMA SPECTRUM-B 629008

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 6.90CHANNELS
STD NUMBER 2 -629008 E SAMPLE WEIGHT = 100.00000 MG DEAD TIME = .21 0/0 EOB = 0. MJD
IRRADIATION TIME = 0. MIN DECAY TIME = .50 DAYS COUNT TIME = 39.361 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 629005

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 7.08CHANNELS
 STD NUMBER 1 2 -629008 E SAMPLE WEIGHT = -.0. MG DEAD TIME = .21 O/O EOB = 0. MJD
 IRRADIATION TIME = 0. MIN DECAY TIME = .50 DAYS COUNT TIME = 39.250 MIN C/SEC BEG. = 0 C/SEC END = 0
 START TIME = .50 MJD PILL THICKNESS = -.0. MILS SPECTRUM BEGAN 0/ 07 0 PST

8074 D LYLN-1 (956 W)
GAMMA SPECTRUM-B 629006

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 7.08CHANNELS
STD NUMBER 1 2 -629008 E SAMPLE WEIGHT = -0. MG DEAD TIME = .22 O/O EOB = 0. MJD
IRRADIATION TIME = 0. MIN DECAY TIME = .50 DAYS COUNT TIME = 39.657 MIN C/SEC BEG. = 0 C/SEC END = 0
START TIME = .50 MJD PILL THICKNESS = -0. MILS SPECTRUM BEGAN 07 07 0 PST

NUCLIDE	COUNTS REMOVED FROM PEAK				GROSS COUNTS	BKGD COUNTS	APPR PEAK COUNTS	REAL PEAK COUNTS	I X	FLUX(N/MIN-CM2)	CPM	ELEMENT	ELEMENT
	COUNTS	EL	MULT	COUNTS									
BKSCAT				82053	0	489	489		8.993 +/- .022E 5	78080.0	.009 +/- 2.487E 1		
SN				34851	1020*0233	236	3.652 +/- .018E 4		4332.9	.119 +/- .001E -0	SN		
BA				4073	750*0630	306	9.358 +/- .108E 5		425.6	4.548 +/- .118E -4	BA		
LA	SN PEAK IS AT CHANNEL 236.45 WITH HALFWIDTH OF	5.10.	BA PEAK IS SUMMED STARTING 63.00 CHANNELS HIGHER.										
CE	SN PEAK IS AT CHANNEL 236.45 WITH HALFWIDTH OF	5.10.	LA PEAK IS SUMMED STARTING 78.00 CHANNELS HIGHER.										
CE	SN PEAK IS AT CHANNEL 236.45 WITH HALFWIDTH OF	5.10.	CE PEAK IS SUMMED STARTING 90.00 CHANNELS HIGHER.										
	COUNT RATE CORRECTION FOR LAST ELEMENT = I												

82053 0 489 489 8.993 +/- .022E 5 78080.0 .009 +/- 2.487E 1
34851 1020*0233 236 3.652 +/- .018E 4 4332.9 .119 +/- .001E -0 SN
4073 750*0630 306 9.358 +/- .108E 5 425.6 4.548 +/- .118E -4 BA
LA SN PEAK IS AT CHANNEL 236.45 WITH HALFWIDTH OF 5.10. BA PEAK IS SUMMED STARTING 63.00 CHANNELS HIGHER.
611 539*0780 319 5.746 +/- 1.159E 5 9.2 1.605 +/- 1.371E -5 LA
CE SN PEAK IS AT CHANNEL 236.45 WITH HALFWIDTH OF 5.10. LA PEAK IS SUMMED STARTING 78.00 CHANNELS HIGHER.
940 598*0900 333 8.205 +/- .803E 5 43.8 5.339 +/- 1.232E -5 CE
CE SN PEAK IS AT CHANNEL 236.45 WITH HALFWIDTH OF 5.10. CE PEAK IS SUMMED STARTING 90.00 CHANNELS HIGHER.

8074 F BUR-55 845 S
GAMMA SPECTRUM-B 629009

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 6.96CHANNELS
STD NUMBER 1 2 -629008 E SAMPLE WEIGHT = -.0. MG DEAD TIME = .25 O/O EOB = 0. MJD
IRRADIATION TIME = 0. MIN DECAY TIME = .50 DAYS COUNT TIME = 39.395 MIN C/SEC BEG. = 0 C/SEC END = 0.
START TIME = .50 MJD PILL THICKNESS = -.0. MILS SPECTRUM BEGAN 0/ 0/ 0 PST

8074 G BUR-56 845 T
GAMMA SPECTRUM-B 629011

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 6.98CHANNELS
STD NUMBER 1 2 -629008 E SAMPLE WEIGHT = -0. MG DEAD TIME = .29 O/O EOB = 0. MJD
IRRADIATION TIME = 0. MIN DECAY TIME = .50 DAYS COUNT TIME = 39.996 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 COUNTS	BKGD COUNTS	APPR PEAK COUNTS	REAL PEAK COUNTS	I X	FLUX(N/MIN-CM ²)	CPM	ELEMENT	ELEMENT
	COUNTS	EL	MULT	COUNTS									
BKSCAT	99068	0	489	490	8.993 +/- .022E 5	95095.0	.011 +/- 3.328E 1						
SN	33760	1198*0233	236	3.652 +/- .018E 4	3424.2	9.376 +/- .079E -2	SN						
BA	12663	1283*0630	306	9.358 +/- .108E 5	1196.7	1.279 +/- .021E -3	BA						
LA	SN PEAK IS AT CHANNEL 236.36 WITH HALFWIDTH OF 5.11.	BA PEAK IS SUMMED STARTING 63.00 CHANNELS HIGHER.											
CE	818	786*0780	319	5.746 +/- 1.159E 5	3.4	.586 +/- 1.318E -5	LA						
CE	SN PEAK IS AT CHANNEL 236.36 WITH HALFWIDTH OF 5.11.	LA PEAK IS SUMMED STARTING 78.00 CHANNELS HIGHER.											
CE	1253	756*0900	333	8.205 +/- .803E 5	52.3	6.370 +/- 1.211E -5	CE						
	COUNT RATE CORRECTION FOR LAST ELEMENT = I												

8074 H BUR-57 845 U
GAMMA SPECTRUM-B 629013

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 6.87CHANNELS
STD NUMBER 1 2 -629008 E SAMPLE WEIGHT = -0. MG DEAD TIME = .29 O/O EOB = 0. MJD
IRRADIATION TIME = 0. MIN DECAY TIME = .50 DAYS COUNT TIME = 39.997 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 629014

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 6.96CHANNELS

THE IN (25.11REV) PEAK HAS A HALF WIDTH OF .000000 STD NUMBER 1 2 -629008 E SAMPLE WEIGHT = -.0. MG DEAD TIME = .26 0/0 EOB = 0. MJD
IRRADIATION TIME = 0. MIN DECAY TIME = .50 DAYS COUNT TIME = 39.907 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 629016

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 6.92CHANNELS
 STD NUMBER 1 2 -629008 E SAMPLE WEIGHT = -0. MG DEAD TIME = .24 0/0 EOB = 0. MJD
 IRRADIATION TIME = 0. MIN DECAY TIME = .50 DAYS COUNT TIME = 39.489 MIN C/SEC BEG. = 0 C/SEC END = 0
 START TIME = .50 MJD PILL THICKNESS = -0. MILS SPECTRUM BEGAN 07/07 0 PST

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BKSCATER	100060	489	13	-41	.00001	27	2	1.	-1
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SN	SN 7	100025	200233	7	-16	7	0	1.	-1
0.0									
BA	BA	100032	1100630	8	-7	14	1	7.13	-4
0.0									
LA	LA	100033	1100780	6	-6	11	0	4.490	-5
0.0									
CE	CE	100035	1100900	9	-8	14	0	8.03	-5
0.0								X	
629003	517			100.			0.5	3	
8074 B	BACK	BACKGROUND		100.			3		
629001	517								
8074 A	STD POT	956 D							
629008	517			100.			3		
8074 E	STD POT	845 C							
629005	5 17			3					
8074 C	PLAST	THICK PLASTIC				1 2			
629006				3					
8074 D	LYLN-1	(956 W)							
629009				3					
8074 F	BUR-55	845 S							
629011				3					
8074 G	BUR-56	845 T							
629013				3					
8074 H	BUR-57	845 U							
629014				3					
8074 I	BUR-58	845 V							
629016				3					
8074 J	BUR-59	845 W							