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LLNL-TR-420995

NDA BATCH 2008-05

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NDA BATCH REPORT COVER SHEET

NDA Batch Number: 2008-5	Status: VALIDATED
Testing Facility: **LLNL Plutonium Facility Segmented Gamma Scanner (SGS)**	

Waste Containers

LL85234292, LL85901383, LL85001753, LL85234288, LL85001773, LL85101617, LL85234328, LL85234322

REPLICATES: LL85234292-R, LL85101617-R

100% of the radioassay data in the Batch Data Report must be reviewed.

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Section	Date	Section	Date
Cover Sheet/Table of Contents	11/30/09	LL85001753, RUN 2650	4/1/08
Batch Narrative	7/17/08	SGS 100, RUN 2652	4/2/08
Independent Technical Reviewer Checklist	5/1/08	SGS 100, RUN 2658	4/7/08
SGS Logbook pages for this batch	4/1/08 to 4/9/08	LL85234288, RUN 2659	4/7/08
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SGS 100, Run 2645	4/1/08	LL85101617-R, RUN 2665	4/8/08
LL85234292, RUN 2647	4/1/08	LL85234328, RUN 2666	4/8/08
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LL85901383, RUN 2649	4/1/08	SGS 100, RUN 2669	4/9/08

NDA Batch Narrative	

Batch Number: **2008-5**	Status: ~~NOT~~ **VALIDATED**

JW 7.17.08

Quality Control Summary
QC Sample results (daily background check drums and 100-gram standard) were within acceptance criteria established by WIPPs Quality Assurance objectives for TRU Waste characterization.

Replicate Summary
Replicate run was performed on the following drums LL8523~~4~~384 and LL85101617. Replicate measurement results are acceptable at the 95% confidence level as established by WIPP criteria.

292 JW 7.17.08

Nonconformances
None Identified.

Technical Supervisor/QA Officer Comments
Background Checks were completed, but electronic data was not saved to print data reports. Background Checks were verified using Control Charts to be sure all Backgrounds were within acceptable limits. Backgrounds show within limits per Control Chart.

Technical Supervisor/QA Officer Printed Name	
Signature John Wolf	Date 7.17.08

SGS DATA-GENERATION-LEVEL BATCH DATA REPORT REVIEW, VALIDATION, AND VERIFICATION CHECKLIST

RADIOASSAY BATCH NUMBER: 2008-5 includes the following containers: 2008-3 06-02-08

LL85234292	LL85901383	LL85001753	~~LL85234276~~	~~LL85234331~~
LL85234288	LL85001723	LL85101617	~~LL85101617~~ Duplicate	LL85234328
LL85234322	06-02-08		Log. 2663 2665	LL85234292-R replicate

Removed from batch 6.2.08

100% of the radioassay data in the Batch Data Report must be reviewed. 2663 06-02-08

Yes/No (Y/N)	Independent Technical Reviewer Checklist — initial & date: 5-1-08
Y	The assay measurements are within the system calibration range for the factors of waste matrix, radionuclide identity, and activity.
Y	The Expert Reviewer has evaluated the Batch Data, the review is complete and is documented on the SGS Expert Reviewer Checklists or data reports, as appropriate.
Y	Data are reported in the proper units and correct number of significant figures or more.
Y	☒ Calculations have been verified by a valid calculation program (GWAS and/or MGA), and/or ☐ I have conducted a spot check of verified calculation programs, and/or ☐ I have made a 100% check of all hand calculations. (Mark all that apply.)
Y	I have reviewed the data, including manually input text, for transcription errors or no transcriptions were done. (Check, especially, container identification number, batch number, and gross and tare weights.)
Y	Source transmission for each segment of every measurement is either within the acceptable range or has been accepted by the expert reviewer.
Y	The testing batch QA documentation is complete and includes raw data (including data on electronic storage media and copies of SGS logbook entries for the batch), calculation records (including the printed SGS measurement report, Radioassay Data Sheet, and, if done, the Expert Reviewer's report), references to calibration records (a Count Type of *55 Gallon Galv. Drum, Daily 20 g Drum Check*, or *Daily 100 g Drum Check* indicates an acceptable calibration), and QC sample results, namely, a Radioassay Data Sheet for a replicate of an unknown.
Y	QC measurements, namely background and performance checks, were made at the beginning of each counting session in the batch and their records are present.
Y	QC measurement results (background checks and performance checks by measurement of standards) are within established control limits per procedure for SGS operations (OP-B332-005). QC criteria that were not met have been documented with a closed and satisfactorily resolved WCP NCAR or Plutonium Facility CAR.
Y	A replicate count of an unknown has been made once for every batch (which has a maximum of 20 waste containers) or once per week, whichever is more frequent.
Y	Replicate assay QC measurements were properly performed and pass/fail criteria are within established control limits, as calculated below, per procedure WIC 134, and if not, the data have been appropriately qualified.

Let *A1* be the Pu-239 activity from the first replicate count, as recorded on the Radioassay Data Sheet, and *A2* the value from the second replicate count.

Calculate: $D = |A1 - A2| =$ 0.18

Calculate: $s = SQRT[(1.96\ s1)^2 + (1.96\ s2)^2] =$ 0.69

where *1.96 s1* and *1.96 s2* are the 1.96 σ total measurement uncertainties associated with *A1* and *A2*. If $D < s$, the measurement results are the same at the 95% confidence level and the QC measurement passes.

Y	I have marked the Passed item on the Radioassay Data Sheet(s) for QC replicates as either Yes or No.

Robert J. Hasleff — Independent Technical Reviewer Signature

5-1-08 — Date

Robert J. Hasleff Jr. — Printed Name

SGS DATA-GENERATION-LEVEL BATCH DATA REPORT REVIEW, VALIDATION, AND VERIFICATION CHECKLIST

Yes/No (Y/N)

Technical Supervisor Review Checklist

Y — The data are technically reasonable based on the gamma spectroscopy technique used by the SGS.

Y — All data have received independent technical review.

Y — The testing batch QA documentation is complete and includes raw data, calculation records, references to calibration records, and QC sample results, namely, a replicate of an unknown.

Y — Testing batch data correctly lists the testing facility name, testing batch number, drum numbers included in the batch, and signature releases of radioassay testing personnel.

Y — A table of contents is present.

Y — Background and performance check data and/or control charts for the relevant time period are present.

Y — Separate Radioassay Data Sheets are attached for each waste container. The sheets include information on the method used, Item Description Code (LLNL TRUW Form number or waste stream number), date of examination, total Pu-239 FGEs (g) and associated uncertainty, total alpha activity and associated uncertainty (Ci), TRU activity (nCi/g) and associated uncertainty, listing of individual radioisotopes present (Ci) and associated uncertainties (Ci), thermal power (total decay heat) and associated uncertainty (W), QC replicate (yes/no), and Operator signature / date, expert reviewer (when applicable) signature / date.

___ Actions necessary for release of data: _____

_____

Actions completed: _____ _____
Signature **Date**

7.17.08

Technical Supervisor Signature **Date**

John Wolf

Printed Name

SGS DATA-GENERATION-LEVEL BATCH DATA REPORT REVIEW, VALIDATION, AND VERIFICATION CHECKLIST

Yes/No/Not Applicable (Y/N/NA)

QA Officer Review Checklist

Y — Independent Technical and Technical Supervisory reviews have been performed as evidenced by the appropriate signature releases. *(Write "NA" if this checklist is filled out by the same person who filled out the Technical Supervisor Review Checklist.)*

Y — The testing batch QA documentation is complete as appropriate for radioassay, as detailed in the Technical Supervisor checklist. *(Write "NA" if this checklist is filled out by the same person who filled out the Technical Supervisor Review Checklist.)*

Yes/No (Y/N)

Y — Additionally, these data validation checklists (Independent Technical Review, Technical Supervisor review, and QA Officer review), when complete, are appended to the Batch Data Report.

Quality Assurance Objectives have been met:

Y — The results fall within the ranges for which the Quality Assurance Objectives were verified for the SGS.

Y — The MDC has been correctly determined for the waste matrix of this container. (Note that the MDA values for the radionuclides reported on Radioassay Data Sheets have not been corrected for transmission attenuation, unless the expert reviewer has done so and so stated.)

Y — The value reported for TRU alpha activity concentration > MDC if the reported value > 100 nCi/g. *(LLW, where the reported concentration ≤ 100 nCi/g, may be reported as ≤ MDC.)* *(In determining TRU alpha activity concentration, any radionuclides measured at ≤ MDC are counted as zero activity or are input, using acceptable knowledge, from known ratios to a nuclide measured at > MDC.)*

[signature] — **QA Officer Signature**

7.17.08 — **Date**

John Wolf — **Printed Name**

SGS DAILY LOGBOOK for WS-7715 in B-332/1377

DATE: 04-01-08 PAGE 1 of 1

PRIMARY OPERATOR'S NAME/INITIALS: William A. Pellegrini / WAP

SECONDARY OPERATOR(s)'S NAME/INITIALS: JAMES ATKINS / JA

DAILY CHECKS/INITIALS: (Fill in on Page 1 only) Daily Room Check complete WAP, Daily Scales Check complete WAP, Date/Time Dewars last filled 03-30-08*** N/A

START TIME	END TIME	DRUM ID *	OPER.	Verifier **	SEQ. #	BATCH #	DRUM GROSS WT	COMMENTS
11:20	12:15	SGS100	WAP	JA	2645	2008-5	54.0 kg	OK
13:15	13:20	BCK	WAP	JA	2646		N/A	OK
13:25	14:20	LL85234292	WAP	JA	2647		66.0 Kg	OK for Replicate
14:40	15:35	LL85234292-R	WAP	JA	2648		66.0 Kg	OK
15:55	16:50	LL85901383	WAP	JA	2649		97.0 Kg	OK
17:05	18:00	LL85001753	WAP	JA	2650		51.2 Kg	OK

NOTES: * Options are: BCK (Backround), S100g (Standard), or Waste Drum No. (Omit "TRU" on LL drums.) *** Ref: OP-B332-005, Section 9

** Secondary Operator's initials req'd for all waste drums to verify that both the gross and tare wts are accurate and have been intered into the computer correctly.

J. E. Wolf 4.10.08

SGS DAILY LOGBOOK for WS-7715 in B-332/1377

DATE: 04-02-08 PAGE 1 of 1

PRIMARY OPERATOR'S NAME/INITIALS: William A. Pellegrini / WAP

SECONDARY OPERATOR(s)'S NAME/INITIALS: THOMAS A FULLER TAF

DAILY CHECKS/INITIALS: (Fill in on Page 1 only) Daily Room Check complete WAP, Daily Scales Check complete WAP, Date/Time Dewars last filled 04-01-08 *** N/A

START TIME	END TIME	DRUM ID *	OPER.	Verifer **	SEQ. #	BATCH #	DRUM GROSS WT	COMMENTS
08:00	08:05	BCK	WAP	JAF	2651	2008-5	N/A	OK
08:30	09:25	SGS100	WAP	JAF	2652		54.0 Kg	OK
11:35	12:30	LL85234288	WAP	JAF	2653		59.6 Kg	Showing 0 Gross Weight? Need to verify
13:50	13:55	BCK	WAP	JAF	2654		N/A	OK
14:10	15:05	LL85234276	WAP	JAF	2655		68.4 Kg	OK
15:20	16:15	LL85234331	WAP	JAF	2656		125.6 Kg	OK Removed from batch 7-16-08 kg

NOTES: * Options are: BCK (Backround), S100g (Standard), or Waste Drum No. (Omit "TRU" on LL drums.) *** Ref: OP-B332-005, Section 9

** Secondary Operator's initials req'd for all waste drums to verify that both the gross and tare wts.are accurate and have been intered into the computer correctly.

PFWM Review Name/Date: JG wmf 4.10.08

SGS DAILY LOGBOOK for WS-7715 in B-332/1377

DATE: PAGE 1 of 1	PRIMARY OPERATOR'S NAME/INITIALS: William A. Pellegrini (WAP)
04-07-08	SECONDARY OPERATOR(s)'S NAME/INITIALS: JAMES A TRING [signature] Sofia Castilleja (SC)

DAILY CHECKS/INITIALS: (Fill in on Page 1 only)	Daily Room Check complete (WAP), Daily Scales Check complete (WAP) Date/Time Dewars last filled 04-06-08*** (WAP)

START TIME	END TIME	DRUM ID *	OPER.	Verifier **	SEQ. #	BATCH #	DRUM GROSS WT	COMMENTS
10:50	10:55	BCK ✓	WAP	[signature]	2657	2008-5	N/A	OK
11:05	12:00	SGS100 ✓	WAP	[signature]	2658	2008-5	54.0 Kg	OK
12:35	13:30	LL85234288	WAP	[signature]	2659	2008-5	59.6 Kg	OK
14:05	15:00	LL85234328	WAP	[signature]	2660	2008-5	65.6 Kg	Need to seed / Rerun
15:20	16:15	LL85001773	WAP	[signature]	2661	2008-5	64.8 Kg	OK 6 curies
16:30	17:25	LL85101617	WAP	SC	2662	2008-5	84.6 Kg	OK for 2nd replicate

NOTES: * Options are: BCK (Backround), S100g (Standard), or Waste Drum No. (Omit "TRU" on LL drums.) *** Ref: OP-B332-005, Section 9

** Secondary Operator's initials req'd for all waste drums to verify that both the gross and tare wts.are accurate and have been intered into the computer correctly.

SGS DAILY LOGBOOK for WS-7715 in B-332/1377

DATE: PAGE 1 of 1 04-08-08	PRIMARY OPERATOR'S NAME/INITIALS: William A. Pellegrini WAP
	SECONDARY OPERATOR(s)'S NAME/INITIALS: Sofia Castilleja SC / JAMES ATKINS

DAILY CHECKS/INITIALS: (Fill in on Page 1 only)

Daily Room Check complete WAP. Daily Scales Check complete WAP. Date/Time Dewars last filled 04-06-08 *** N/A

START TIME	END TIME	DRUM ID *	OPER.	Verifer **	SEQ. #	BATCH #	DRUM GROSS WT	COMMENTS
07:55	08:50	SGS100	WAP	SC	2663	2008-5	54.0 Kg	OK
13:05	13:10	BCK	WAP	SC	2664		N/A	OK
13:30	14:25	LL85101617-R	WAP	SC	2665		84.6 Kg	2nd Replicate ~~Background~~ OK
~~14:55~~		~~LL85234328~~	WAP		~~2666~~		~~69.6 Kg~~	WAP 04-09-08
14:55	15:50	LL85234328	WAP	SC	2666		69.6 Kg	OK
16:05	17:00	LL85234322	WAP	[illegible]	2667		59.8 Kg	OK

NOTES: * Options are: BCK (Backround), S100g (Standard), or Waste Drum No. (Omit "TRU" on LL drums.) *** Ref: OP-B332-005, Section 9

** Secondary Operator's initials req'd for all waste drums to verify that both the gross and tare wts.are accurate and have been intered into the computer correctly.

SGS DAILY LOGBOOK for WS-7715 in B-332/1377

DATE: 04-09-08 PAGE 1 of 1

PRIMARY OPERATOR'S NAME/INITIALS: William A. Pellegrini / [signature]

SECONDARY OPERATOR(s)'S NAME/INITIALS: JAMES A. TYLER / [signature]

DAILY CHECKS/INITIALS: (Fill in on Page 1 only)

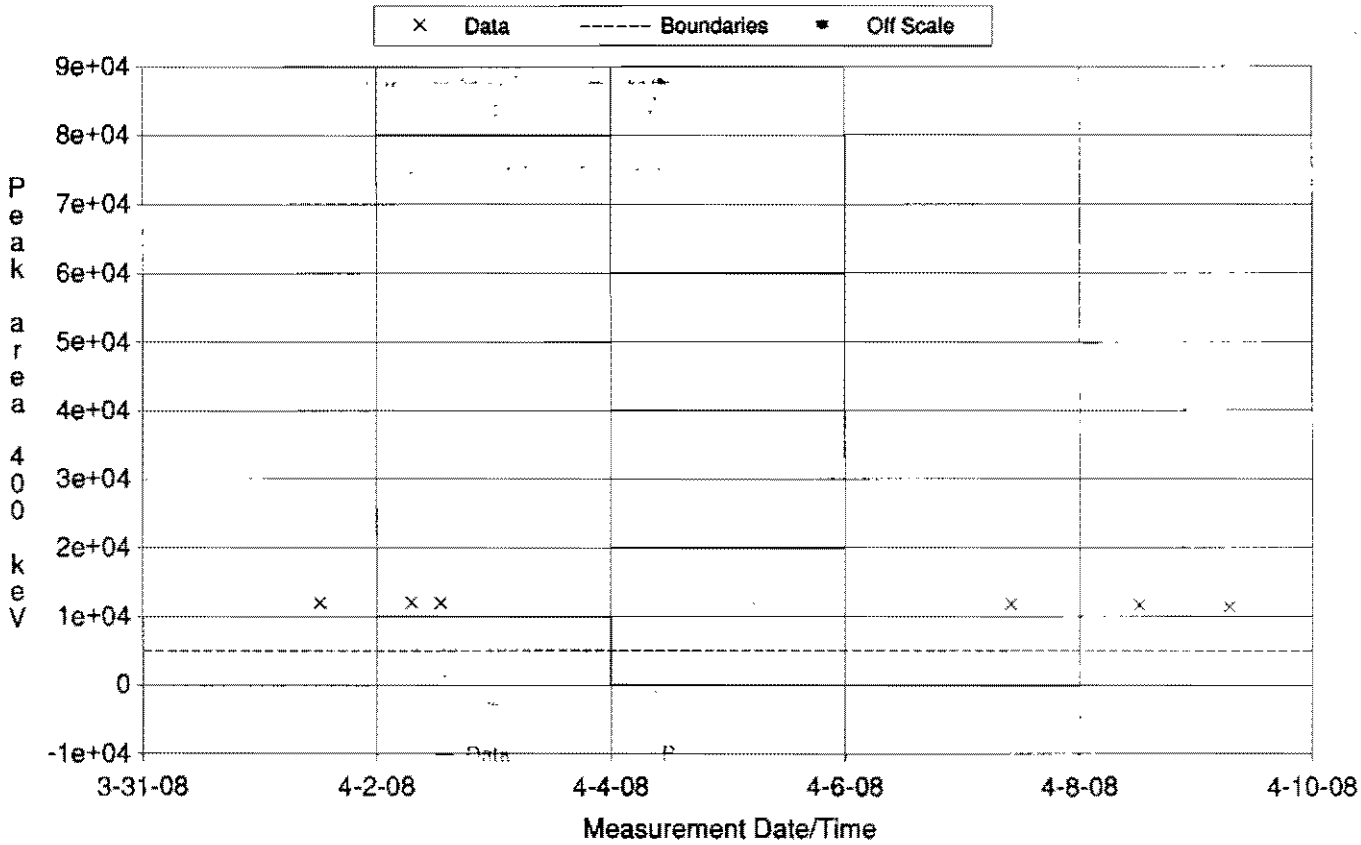
Daily Room Check complete [signature]. Daily Scales Check complete N/A. Date/Time Dewars last filled 04-08-08*** N/A

START TIME	END TIME	DRUM ID *	OPER.	Verifier**	SEQ. #	BATCH #	DRUM GROSS WT.	COMMENTS
07:40	07:45	BCK ✓	[signature]	[signature]	2668	2008-5	N/A	OK
07:55	08:50	SGS100 ✓	[signature]	[signature]	2669 ✓	↓	54.0 Kg	Close Batch 2008-5 OK

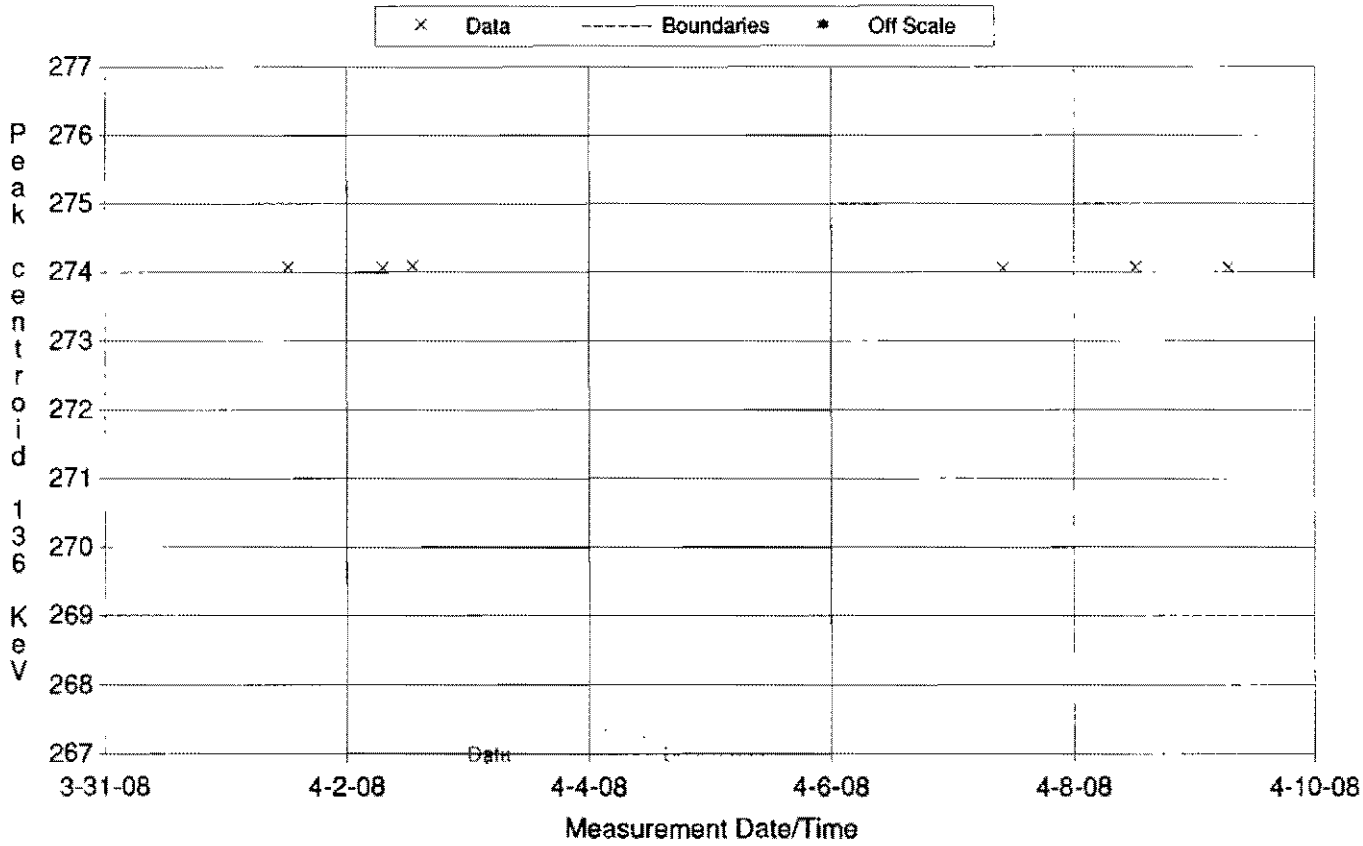
NOTES: * Options are: BCK (Backround), S100g (Standard), or Waste Drum No. (Omit "TRU" on LL drums.) *** Ref: OP-B332-005, Section 9

** Secondary Operator's initials req'd for all waste drums to verify that both the gross and tare wts.are accurate and have been intered into the computer correctly.

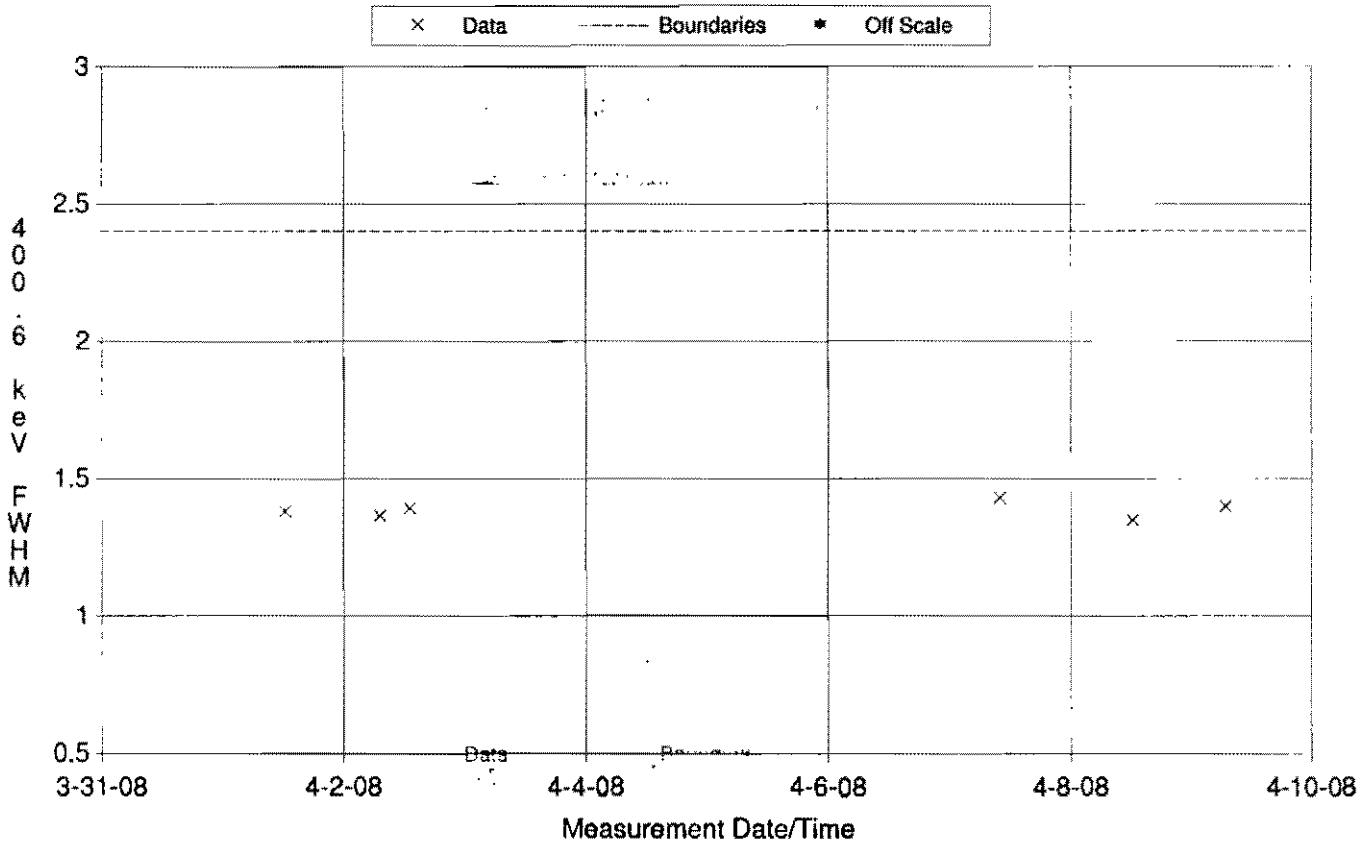
PFWM Review Name/Date: [signature] 4.10.08



QA Filename : C:\WAS\CTRS\CTR1\ARR1\T11_BCK.QAF
Parameter Description : Peak area 400 keV (counts)
Selection Dates : 3-31-08 12:00:00 AM - 4-10-08 12:00:00 AM
Lower/Upper Boundaries : 5000.000 - 70000.000



QA Filename : C:\WAS\CTRS\CTR1\ARR1\T11_BCK.QAF
Parameter Description : Peak centroid 136 KeV (ch)
Selection Dates : 3-31-08 12:00:00 AM - 4-10-08 12:00:00 AM
Lower/Upper Boundaries : 269.000 - 275.000



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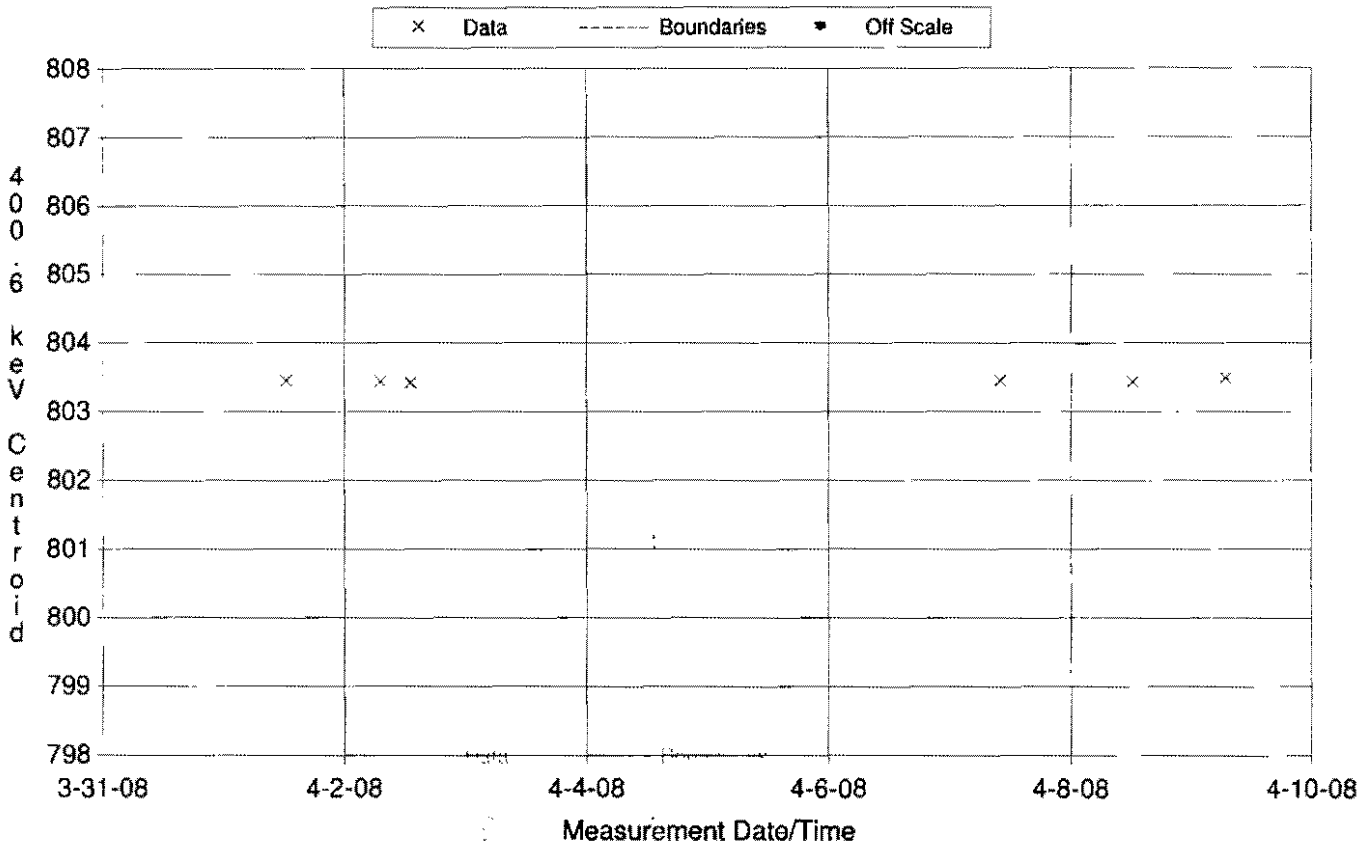
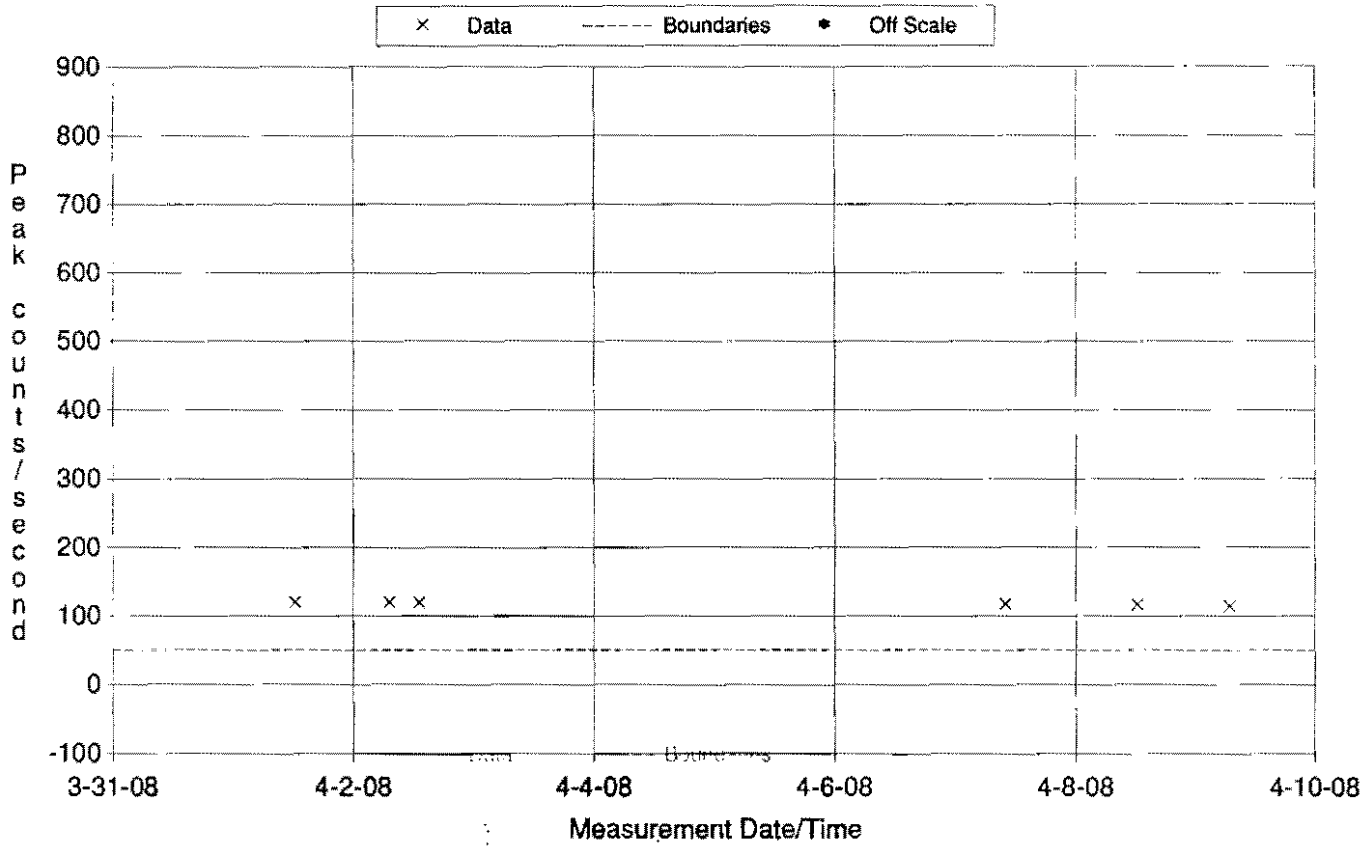
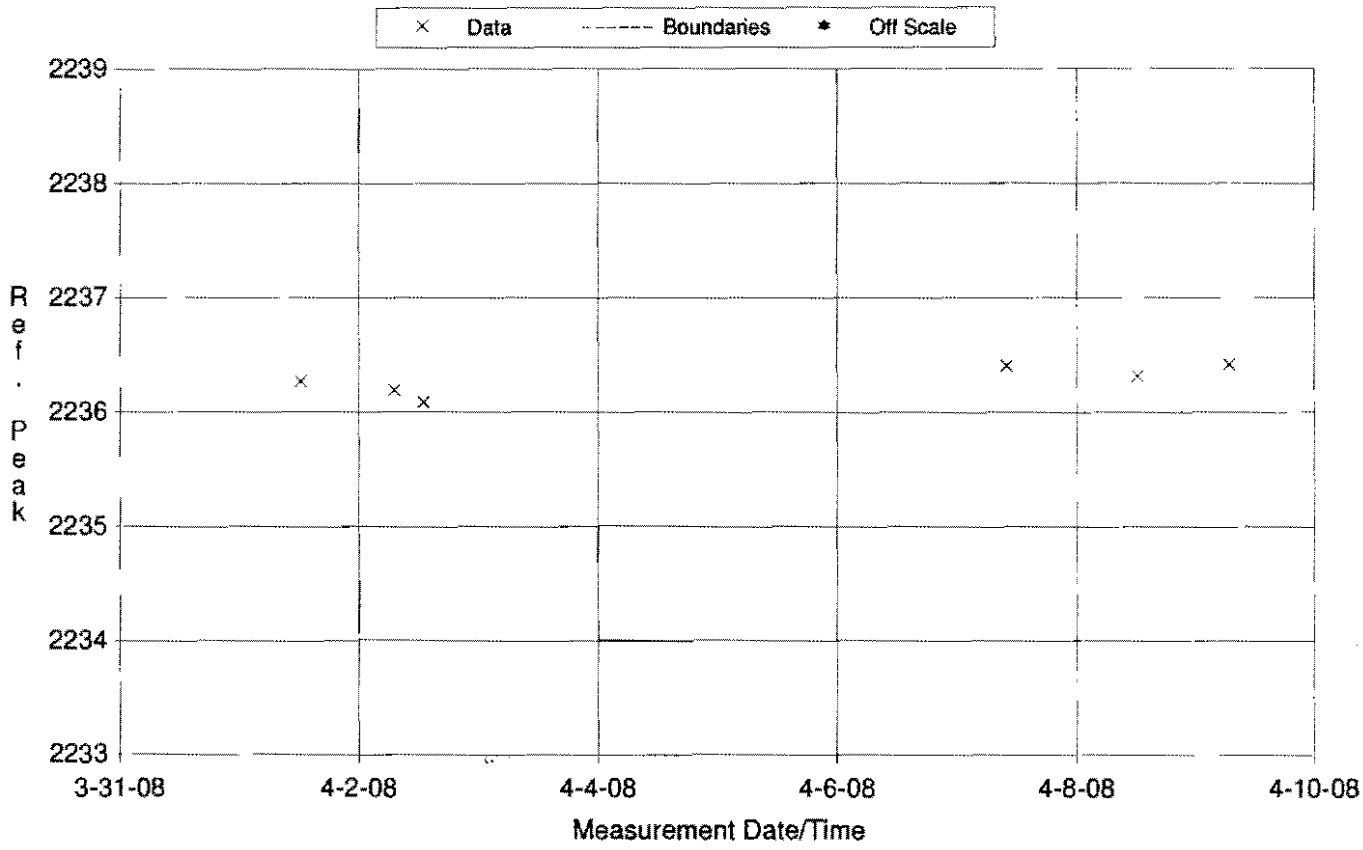
Parameter Description : 400.6 keV FWHM (keV)
Selection Dates : 3-31-08 12:00:00 AM - 4-10-08 12:00:00 AM
Lower/Upper Boundaries : 1.000 - 2.400



QA Filename : C:\WAS\CTRS\CTR1\ARR1\T11_BCK.QAF
Parameter Description : 400.6 keV Centroid (ch)
Selection Dates : 3-31-08 12:00:00 AM - 4-10-08 12:00:00 AM
Lower/Upper Boundaries : 800.000 - 806.000



QA Filename : C:\WAS\CTRS\CTR1\ARR1\T11_BCK.QAF
Parameter Description : Peak counts/second (cps)
Selection Dates : 3-31-08 12:00:00 AM - 4-10-08 12:00:00 AM
Lower/Upper Boundaries : 50.000 - 700.000



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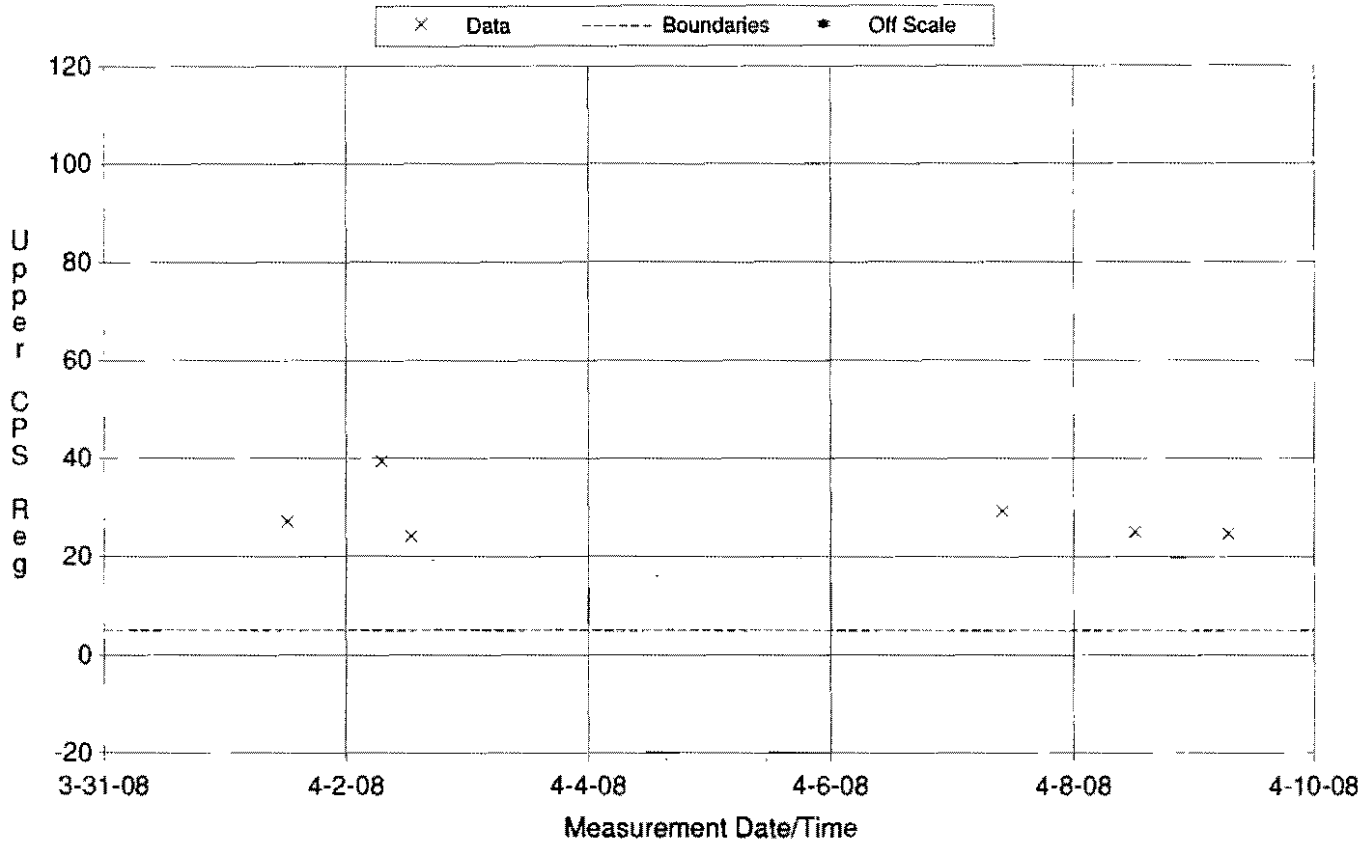
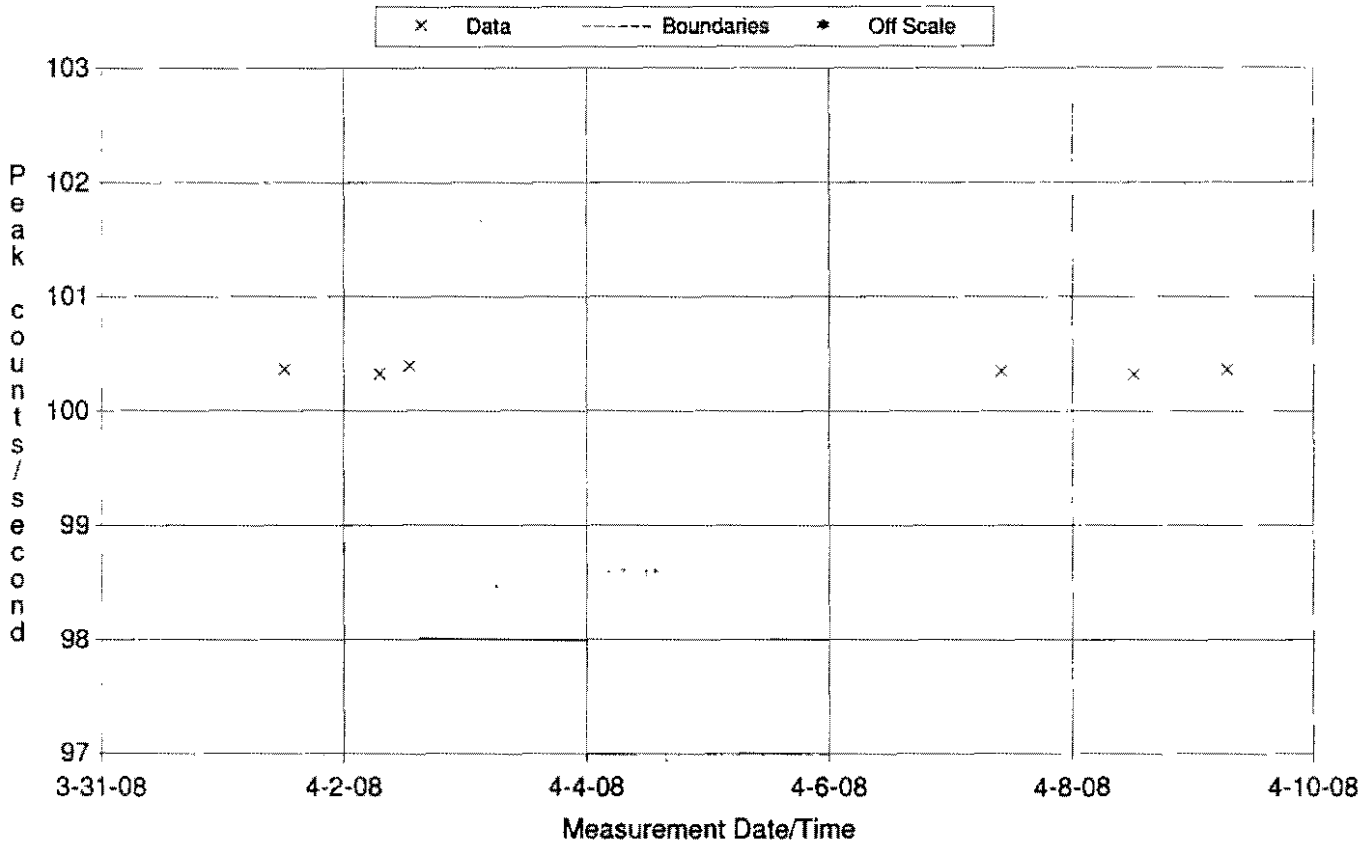
Parameter Description : Ref. Peak (keV)
Selection Dates : 3-31-08 12:00:00 AM - 4-10-08 12:00:00 AM
Lower/Upper Boundaries : 2234.000 - 2238.000

4-4-08
Measurement Date/Time
Ref. Peak (keV)



QA Filename : C:\WAS\CTRS\CTR1\ARR1\S11_BCK.QAF
Parameter Description : Upper CPS Reg (cps)
Selection Dates : 3-31-08 12:00:00 AM - 4-10-08 12:00:00 AM
Lower/Upper Boundaries : 5.000 - 100.000



QA Filename : C:\WAS\CTRS\CTR1\ARR1\S11_BCK.QAF
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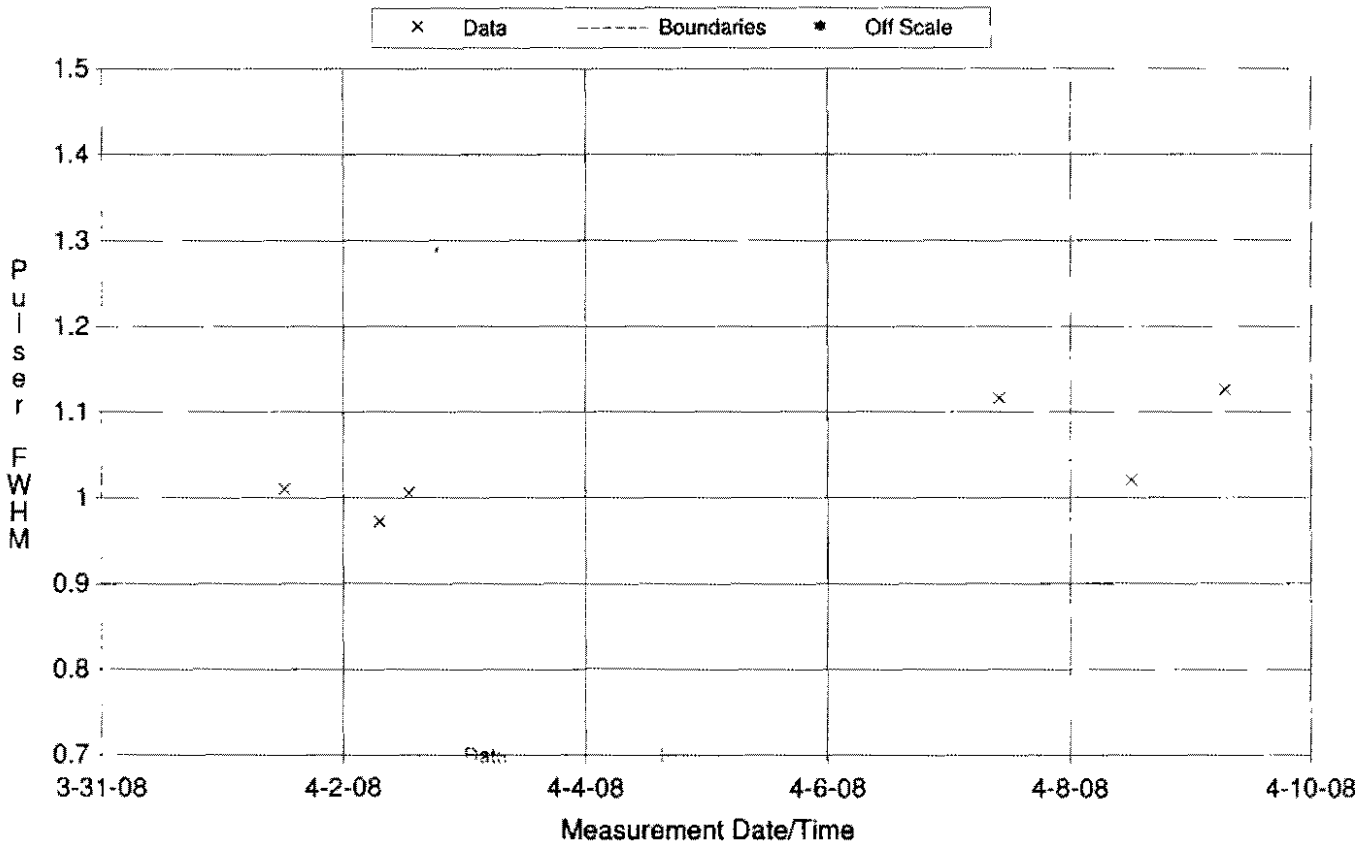
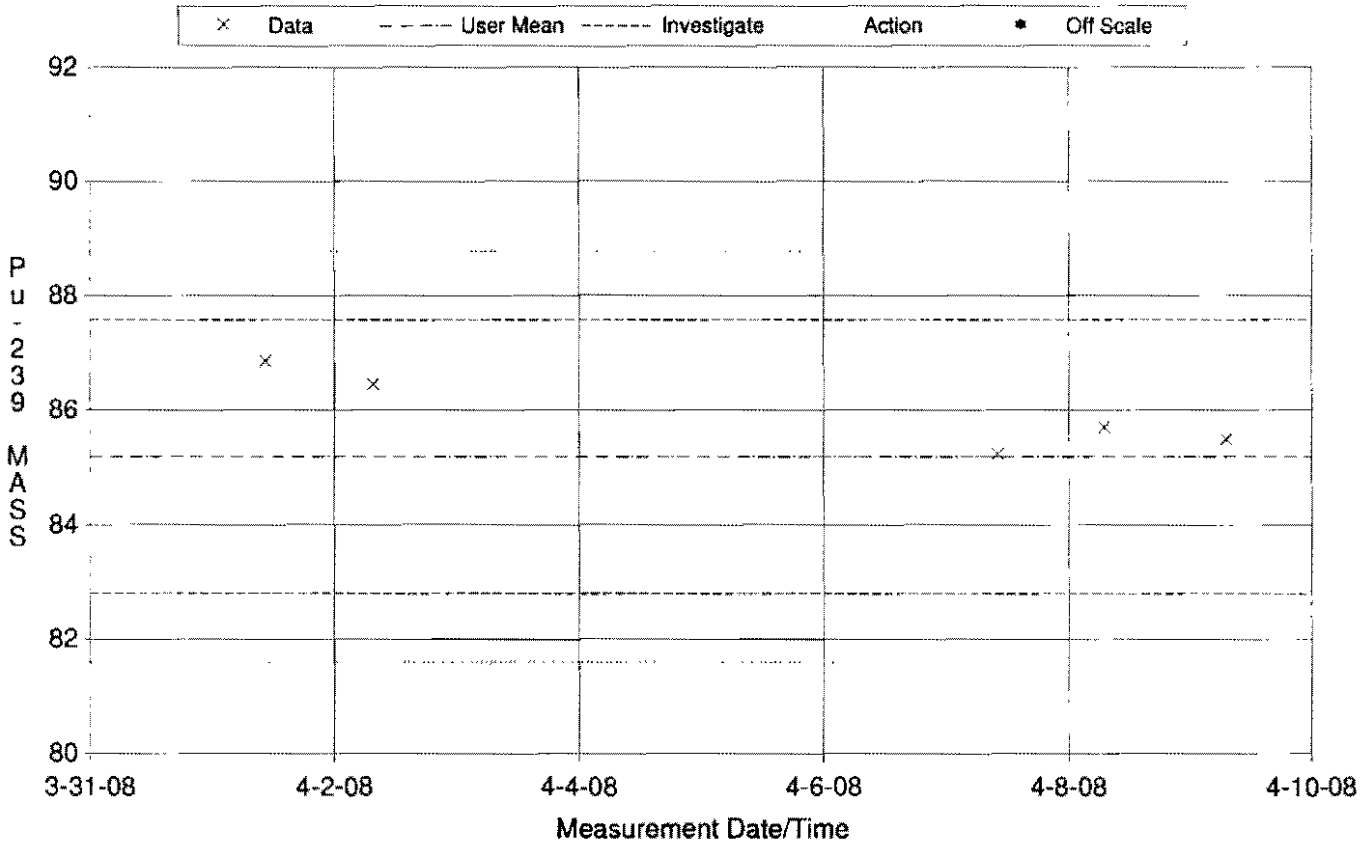
Selection Dates : 3-31-08 12:00:00 AM - 4-10-08 12:00:00 AM
Lower/Upper Boundaries : 98.000 - 102.000



QA Filename : C:\WAS\CTRS\CTR1\ARR1\S11_BCK.QAF
Parameter Description : Pulser FWHM (keV)
Selection Dates : 3-31-08 12:00:00 AM - 4-10-08 12:00:00 AM
Lower/Upper Boundaries : 0.900 - 1.400

Measurement Date/Time



QA Filename : C:\WAS\CTRS\CTR1\ARR1\A05_CAL.QAF
Parameter Description : Pu-239 MASS (grams)
Selection Dates : 3-31-08 12:00:00 AM - 4-10-08 12:00:00 AM
User Mean +-Std Dev : 85.180 +- 1.20e+00

Radioassay Data Sheet — Tue Apr 1 12:08:22 2008
Procedure ID & Rev: WCP-55 03/07/2002 — Software Version: GWAS v2.3bGEN

Drum ID	: S100-2645	Gross Weight (kg)	: 54.0
Sequence Number	: 2645	Fill Height (%)	: 100.0
Assay Date	: 04/01/08 10:26:15	Density (g/cc)	: 0.11
		Net Weight (kg)	: 22.20
Batch Number	:	Waste Matrix Code	:
Site ID	:	TRUCON	:

	Errors at 1.00 Sigma		
TRU Alpha Activity Concentration:	4.30e-04	+/- 5.28e-05	Ci/g
Total Pu-239 Equiv Activity:	9.94e+00	+/- 1.17e+00	Ci
Total Pu-239 Fissile Gram Equiv:	1.06e+02	+/- 1.81e+01	g
Decay Heat:	3.05e-01	+/- 3.70e-02	W
Total Pu Mass:	1.12e+02	+/- 1.81e+01	g
TMU:	17.09%		
Waste Classification:	TRU		

Isotopics Data

Measured Isotope	MGA Report Weight %	MGA Report % Err (1.00 Sigma)
Pu-238	7.97e-03	6.48e+00
Pu-239	9.42e+01	4.45e-02
Pu-240	5.58e+00	7.46e-01
Pu-241	1.80e-01	5.94e-01
Pu-242	3.08e-02	1.00e+01
Am-241	4.99e-01	4.10e-01
Am-243	0.00e+00	0.00e+00
Np-237	0.00e+00	0.00e+00
U-235	0.00e+00	0.00e+00

Activity Errors

Isotope	Isotope Mass (g)	1.00 Sigma Error/Isotope Mass (g)	Alpha Activity/ Isotope (Ci)	1.00 Sigma Error/Isotope (Ci)	MDA (g)
Pu-238	8.96e-03	1.64e-03	1.53e-01	2.80e-02	3.02e-03
Pu-239	1.06e+02	1.81e+01	6.56e+00	1.12e+00	3.08e-01
Pu-240	6.26e+00	1.07e+00	1.42e+00	2.43e-01	0.00e+00
Pu-241	2.02e-01	3.46e-02	2.09e+01	3.57e+00	6.18e-03
Pu-242	3.46e-02	6.85e-03	1.36e-04	2.69e-05	0.00e+00
Am-241	4.09e-01	6.88e-02	1.40e+00	2.35e-01	6.27e-03
Am-243	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
Np-237	1.28e-02	2.26e-03	9.04e-06	1.59e-06	2.31e-03
*U-235	<LLD	0.00e+00	0.00e+00	0.00e+00	3.31e-01
U-238	1.98e+01	6.17e+00	6.64e-06	2.07e-06	1.48e+01
*U-233	<LLD	0.00e+00	0.00e+00	0.00e+00	3.21e+00
CS-137	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
U-234	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
SR-90	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00

* = Activity/Mass below detectable limit.

Operator Signature _____ Date _____

Reviewer Signature _____ Date _____

AUTOMATED INDEPENDENT TECHNICAL REVIEW BASED ON WCP-55 03/07/2002

Software Version: GWAS v2.3bGEN
Counter Number: SGS
Data Review for Container: S100-2645
Item Description Code: \Count Type: DEBRIS
Sequence Number: 2645
Assayed on: 04/01/08 10:26:15
Report Generated: 04/01/08 12:08:06
AITR Version 1.4

Section 1 MGA Analysis Review Using MGA Isotopics

REVIEW Pu-240 Wt Pct +2 Sigma error <5.66> less than <5.87> Review MGA Results
Pu-240 Wt Pct error <0.75> is within limits
Pu-238 Wt Pct error <6.48> is within limits
QFIT <1.15> is within limits

Section 2 - CONTAINER DENSITY REVIEW

Container density <0.107> g/cc is within UPPER and LOWER limits

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Section 3 - SELF-ABSORPTION REVIEW

Pu-239/Pu-239a ratio <1.54e+00> is within limits

Section 4 - PULSER REVIEW

DEAD TIME percentage <1.52> is acceptable in Segment 1
Pulser value <0.99> is within range in Segment 1
DEAD TIME percentage <1.92> is acceptable in Segment 2
Pulser value <0.99> is within range in Segment 2
DEAD TIME percentage <4.37> is acceptable in Segment 3
Pulser value <1.00> is within range in Segment 3
DEAD TIME percentage <14.81> is acceptable in Segment 4
Pulser value <0.99> is within range in Segment 4
DEAD TIME percentage <27.00> is acceptable in Segment 5
Pulser value <0.98> is within range in Segment 5
DEAD TIME percentage <26.91> is acceptable in Segment 6
Pulser value <0.99> is within range in Segment 6
DEAD TIME percentage <16.74> is acceptable in Segment 7
Pulser value <1.00> is within range in Segment 7
DEAD TIME percentage <6.02> is acceptable in Segment 8
Pulser value <0.99> is within range in Segment 8
DEAD TIME percentage <2.03> is acceptable in Segment 9
Pulser value <0.99> is within range in Segment 9
DEAD TIME percentage <1.51> is acceptable in Segment 10
Pulser value <0.99> is within range in Segment 10
DEAD TIME percentage <1.26> is acceptable in Segment 11
Pulser value <0.99> is within range in Segment 11
DEAD TIME percentage <1.07> is acceptable in Segment 12
Pulser value <0.99> is within range in Segment 12
DEAD TIME percentage <0.85> is acceptable in Segment 13
Pulser value <1.00> is within range in Segment 13
DEAD TIME percentage <0.77> is acceptable in Segment 14
Pulser value <0.98> is within range in Segment 14
DEAD TIME percentage <0.69> is acceptable in Segment 15
Pulser value <1.00> is within range in Segment 15
DEAD TIME percentage <0.68> is acceptable in Segment 16
Pulser value <0.99> is within range in Segment 16

Section 5 - TRANSMISSION REVIEW

Transmission results are acceptable in Segment 1
Transmission results are acceptable in Segment 2
Transmission results are acceptable in Segment 3
Transmission results are acceptable in Segment 4
Transmission results are acceptable in Segment 5
Transmission results are acceptable in Segment 6
REVIEW Low Transmission Line <136.000000> < <0.001> found in Segment 7
Transmission results are acceptable in Segment 8

Transmission results are acceptable in Segment 9
Transmission results are acceptable in Segment 10
Transmission results are acceptable in Segment 11
Transmission results are acceptable in Segment 12
Transmission results are acceptable in Segment 13
Transmission results are acceptable in Segment 14
Transmission results are acceptable in Segment 15
Transmission results are acceptable in Segment 16

Section 6 - REDUCED CHI SQUARED FIT REVIEW

REVIEW Reduced chi squared fit value <4.93e+00> exceeds limit <3.00> for energy peak <129.98> in Segment 4
REVIEW Reduced chi squared fit value <1.68e+01> exceeds limit <3.00> for energy peak <129.94> in Segment 5
REVIEW Reduced chi squared fit value <1.05e+01> exceeds limit <3.00> for energy peak <129.94> in Segment 6
REVIEW Reduced chi squared fit value <3.23e+00> exceeds limit <3.00> for energy peak <663.15> in Segment 6
REVIEW Reduced chi squared fit value <1.26e+01> exceeds limit <3.00> for energy peak <129.97> in Segment 7
REVIEW Reduced chi squared fit value <3.70e+00> exceeds limit <3.00> for energy peak <663.21> in the .A04

Section 7 - FGE MASS REVIEW

REVIEW FGE Mass <124.52> > <110.00>

Section 8 - PERCENT FULL REVIEW

Percent Full <100.0> is above lower limit <30.0>

Section 9 - IDC COUNT TYPE REVIEW

REVIEW IDC is not available

Section 10 - AM-241 & NP-237 INTERFERENCE REVIEW

Am-241 ratio <258.59> is above lower limit <200.00>
Np-237 ratio <8257.31> is above lower limit <125.00>

Section 11 - PU-239 CALIBRATION RANGE REVIEW

Pu-239 <105.83> is within limits

Section 12 - CS-137 INTERFERENCE REVIEW

Am-241D > Am-241A: Calculation not performed

Independent Reviewer:_____ Date:_____

INDEPENDENT TECHNICAL REVIEW COMMENT SHEET

Counter Number: SGS
Data Review for Container: S100-2645
Item Description Code:
Sequence Number: 2645
Assayed on: 04/01/08 10:26:15
AITR Version 1.4

Comments	Disposition
SECTION 1 - MGA Pu-240 Wt Pct +2 Sigma error is less than lower limit.	
SECTION 5 - TRANSMISSION Low Transmission Line 136.0 less than 0.001 found in Segment 7	
SECTION 6 - REDUCED CHI SQUARED FIT Chi square failure for 130.0 Kev in Segment 4 Chi square failure for 129.9 Kev in Segment 5 Chi square failure for 129.9 Kev in Segment 6 Chi square failure for 663.2 Kev in Segment 6 Chi square failure for 130.0 Kev in Segment 7 Chi square failure for 663.2 KeV in .A04 Spectrum.	
SECTION 7 - FGE MASS FGE Mass is greater than upper limit.	
SECTION 9 - IDC COUNT TYPE IDC is not available.	

Technical Reviewer: _____ Date: _____

****
***** M G A R E P O R T *****
****

Report generated on: 4-01-08 11:22:49 AM

MGA version: MGA V9.5 CI

Spectrum ID: 11202645.CNF Sens : 30.0% LT: 46.6 Mins DT: 16.61
Measurement date: 4-01-08 Declared date: 4-01-08

Sample ID: S100-2645 Detector: Total counts: 1.300E+07

Pu g/cm2 = 0.7746 Cd g/cm2 = 1.8027 FWHM at 122 keV = 626 eV
QFIT = 1.15 FWHM at 208 keV = 800 eV
NQFIT = 1.01

Isotope	Relative to Pu-239	%* Err	% Err	Relative to Pu-241	%* Err	Isotope analysis at Meas. date % weight	Meas. date %Err	Decl. date % weight	Decl. date %Err
Pu-238	0.000085	6.5	6.5	0.0443	6.4	0.00797	6.48	0.00797	6.48
Pu-239	1.000000	0.0	0.3	523.4847	0.6	94.20478	0.04	94.20478	0.04
Pu-240	0.059195	0.8	0.7	30.9879	0.9	5.57649	0.75	5.57649	0.75
Pu-241	0.001910	0.6	0.5	1.0000	0.0	0.17996	0.59	0.17996	0.59
Pu-242	(New alg.	)		0.1711	(10)	0.03079	(10)	0.03079	(10)
Am-241	0.005294	0.4	0.3	2.7714	0.6	0.49874	0.41	0.49874	0.41

Pu-240 effective (meas. date) = 5.648 +/- 0.81%
Am-241 separated about 27.486 +/- 0.138 years ago
Am/Pu-241 weight ratio = 2.77144 +/- 0.60%

Messages :

Lead x-rays detected.
17 MGA parameter(s) defaulted, starting from parameter 8.

Notes : * = Error in ratio
1.000 sigma errors

Gamma Waste Assay

Sample Information

File Name: C:\WAS\DATA\2700\11102645.S11
Sample ID: S100-2645 Count Sequence Number: 2645
Assay Start: 4-01-08 10:26:17 AM
Description 1:
Description 2:
Location:
Comment:
Waste Type:
Weight: Gross: 54000.0 g Net: 22200.0 g
Density: 0.107 g /ml

Container Type: 55 Gal Galv
Container: Volume: 208000. ml Full: 100.0 %

System Configuration

Counter ID Number: SGS
Arrangement Description: SGS
Segments: Number: 16 Offset: 0
Scanning Platform: Start: 934 mm Delta: -51 mm
Count Type: Daily 100g Drum Check
Collimator/Geometry Setting: 0
Transmission Mode: Two pass
Transmission Source: 0

Errors quoted at 1.000 sigma
Reference Source Date: Reference Source Rate: 1.00E+02 cps
Geometric Correction Factor(SWCONTGCF): 0.760
Date of efficiency calibration approval: 8-27-2003 2:05:34 PM
Mu Factors response file: Lucite
Transmission Calib. Time: 12-11-2007 9:07:38 AM 22209

Reviewed by: _____ Date: _____

Segment Results

Segment: 1 Detector: DET01 (# 1) Position: 1

Elapsed Live Time: 113.25 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.370 +/- 0.0143
SE-75	264.65	0.000 +/- 0.0000	0.463 +/- 0.0083
SE-75	279.53	0.000 +/- 0.0000	0.473 +/- 0.0097
SE-75	400.65	0.000 +/- 0.0000	0.517 +/- 0.0124

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.90	4.27E-01 +/- 1.70E-01	1.92E+00	4.22E-10 +/- 3.02E-09
2	48.85	4.93E+00 +/- 5.11E-01	1.63E+00	6.22E-07 +/- 1.91E-06
3	60.03	7.84E+00 +/- 5.75E-01	1.56E+00	6.20E-06 +/- 1.15E-05
4	121.11	7.50E-01 +/- 4.90E-01	1.44E+00	2.66E-04 +/- 1.81E-05
5	311.90	4.71E-01 +/- 2.15E-01	1.30E+00	2.76E-04 +/- 1.41E-05
6	722.01	2.61E-02 +/- 1.51E-02	1.20E+00	1.18E-04 +/- 7.51E-06
7	964.13	3.40E-02 +/- 2.29E-02	1.17E+00	9.44E-05 +/- 5.09E-06
8	1001.03	3.81E-02 +/- 2.63E-02	1.16E+00	9.18E-05 +/- 4.92E-06
9	2236.00	1.00E+02 +/- 1.50E+00	1.11E+00	3.40E-05 +/- 2.15E-05

Segment: 2 Detector: DET01 (# 1) Position: 2

Elapsed Live Time: 112.79 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.434 +/- 0.0143
SE-75	264.65	0.000 +/- 0.0000	0.539 +/- 0.0046
SE-75	279.53	0.000 +/- 0.0000	0.540 +/- 0.0071
SE-75	400.65	0.000 +/- 0.0000	0.588 +/- 0.0103

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.78	1.45E+00 +/- 2.29E-01	1.75E+00	1.82E-05 +/- 1.14E-04
2	48.92	2.09E+00 +/- 6.00E-01	1.51E+00	7.84E-05 +/- 2.11E-04
3	60.08	1.65E+01 +/- 7.08E-01	1.46E+00	1.32E-04 +/- 2.14E-04
4	68.00	8.34E-01 +/- 4.71E-01	1.43E+00	1.72E-04 +/- 1.96E-04
5	121.11	1.05E+00 +/- 6.60E-01	1.36E+00	3.71E-04 +/- 2.29E-05
6	375.38	2.44E-01 +/- 1.11E-01	1.22E+00	3.13E-04 +/- 1.75E-05
7	413.70	1.72E-01 +/- 1.03E-01	1.21E+00	2.89E-04 +/- 1.85E-05
8	511.45	1.91E-01 +/- 6.49E-02	1.19E+00	2.39E-04 +/- 1.72E-05
9	722.01	3.69E-02 +/- 2.70E-02	1.16E+00	1.71E-04 +/- 9.64E-06
10	1112.12	1.76E-02 +/- 1.24E-02	1.12E+00	1.18E-04 +/- 5.17E-06
11	1408.01	1.76E-02 +/- 1.24E-02	1.11E+00	1.02E-04 +/- 6.88E-06
12	2236.00	1.00E+02 +/- 1.50E+00	1.09E+00	9.73E-05 +/- 5.41E-05

Segment: 3 Detector: DET01 (# 1) Position: 3

Elapsed Live Time: 109.97 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.339 +/- 0.0151
SE-75	264.65	0.000 +/- 0.0000	0.474 +/- 0.0044
SE-75	279.53	0.000 +/- 0.0000	0.476 +/- 0.0068
SE-75	400.65	0.000 +/- 0.0000	0.524 +/- 0.0099

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.99	2.56E+00 +/- 3.18E-01	2.01E+00	3.41E-06 +/- 3.27E-06
	2	49.53	2.75E+00 +/- 9.18E-01	1.68E+00	3.72E-05 +/- 1.84E-05
	3	60.15	7.74E+01 +/- 1.52E+00	1.61E+00	8.07E-05 +/- 2.79E-05
	4	67.91	1.99E+00 +/- 6.63E-01	1.58E+00	1.21E-04 +/- 3.24E-05
	5	99.39	2.97E+01 +/- 1.49E+00	1.51E+00	2.97E-04 +/- 3.03E-05
	6	111.71	9.56E+00 +/- 1.10E+00	1.49E+00	3.54E-04 +/- 2.60E-05
	7	116.01	3.08E+00 +/- 1.31E+00	1.49E+00	3.72E-04 +/- 2.47E-05
M	8	125.99	3.78E+00 +/- 4.03E-01	1.48E+00	4.08E-04 +/- 2.26E-05
m	9	129.99	2.73E+01 +/- 1.01E+00	1.47E+00	4.20E-04 +/- 2.22E-05
	10	148.57	3.06E+00 +/- 7.05E-01	1.45E+00	4.63E-04 +/- 2.25E-05
	11	195.98	3.17E+00 +/- 6.38E-01	1.38E+00	4.95E-04 +/- 2.60E-05
	12	204.23	5.10E+00 +/- 6.98E-01	1.37E+00	4.93E-04 +/- 2.59E-05
	13	208.69	1.23E+01 +/- 9.22E-01	1.37E+00	4.92E-04 +/- 2.59E-05
	14	268.31	1.29E+00 +/- 6.43E-01	1.31E+00	4.47E-04 +/- 2.17E-05
	15	311.90	8.52E-01 +/- 4.45E-01	1.30E+00	4.04E-04 +/- 1.79E-05
M	16	321.70	1.17E+00 +/- 3.25E-01	1.29E+00	3.95E-04 +/- 1.71E-05
m	17	324.35	1.58E+00 +/- 3.60E-01	1.29E+00	3.92E-04 +/- 1.69E-05
M	18	333.50	7.38E+00 +/- 4.87E-01	1.29E+00	3.84E-04 +/- 1.63E-05
m	19	336.45	2.50E+00 +/- 2.57E-01	1.29E+00	3.81E-04 +/- 1.61E-05
M	20	342.17	5.93E-01 +/- 1.59E-01	1.28E+00	3.76E-04 +/- 1.58E-05
m	21	345.69	5.97E+00 +/- 4.67E-01	1.28E+00	3.73E-04 +/- 1.56E-05
	22	375.76	1.36E+01 +/- 6.41E-01	1.27E+00	3.46E-04 +/- 1.41E-05
M	23	380.94	2.97E+00 +/- 2.78E-01	1.27E+00	3.42E-04 +/- 1.38E-05
m	24	383.51	3.01E+00 +/- 2.69E-01	1.27E+00	3.40E-04 +/- 1.37E-05
	25	393.68	5.89E+00 +/- 3.43E-01	1.27E+00	3.31E-04 +/- 1.34E-05
	26	413.70	1.74E+01 +/- 4.88E-01	1.26E+00	3.16E-04 +/- 1.28E-05
	27	423.37	8.48E-01 +/- 1.42E-01	1.26E+00	3.09E-04 +/- 1.26E-05
	28	452.25	2.11E+00 +/- 1.69E-01	1.25E+00	2.89E-04 +/- 1.20E-05
	29	560.26	1.47E-01 +/- 6.01E-02	1.22E+00	2.32E-04 +/- 1.08E-05
	30	646.62	1.93E-01 +/- 5.58E-02	1.21E+00	2.00E-04 +/- 9.81E-06
	31	662.42	7.66E-01 +/- 1.14E-01	1.20E+00	1.95E-04 +/- 9.62E-06
	32	722.01	4.11E-01 +/- 8.27E-02	1.19E+00	1.79E-04 +/- 8.87E-06
	33	770.33	1.16E-01 +/- 4.70E-02	1.19E+00	1.68E-04 +/- 8.23E-06
	34	778.90	7.34E-02 +/- 3.44E-02	1.19E+00	1.66E-04 +/- 8.11E-06
	35	1112.12	1.81E-02 +/- 1.28E-02	1.15E+00	1.27E-04 +/- 4.65E-06
	36	1408.01	1.81E-02 +/- 1.28E-02	1.13E+00	1.15E-04 +/- 7.14E-06
	37	2236.00	1.00E+02 +/- 1.53E+00	1.11E+00	1.32E-04 +/- 3.24E-05

Segment: 4 Detector: DET01 (# 1) Position: 4

Elapsed Live Time: 97.97 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.290 +/- 0.0171
SE-75	264.65	0.000 +/- 0.0000	0.487 +/- 0.0095
SE-75	279.53	0.000 +/- 0.0000	0.493 +/- 0.0117
SE-75	400.65	0.000 +/- 0.0000	0.525 +/- 0.0147

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.00	1.72E+01 +/- 8.58E-01	2.19E+00	1.16E-07 +/- 7.10E-07
	2	50.04	4.81E+00 +/- 1.46E+00	1.79E+00	1.05E-05 +/- 2.65E-05
	3	60.15	4.49E+02 +/- 6.14E+00	1.71E+00	3.61E-05 +/- 5.76E-05
	4	99.38	1.82E+02 +/- 3.76E+00	1.59E+00	2.64E-04 +/- 6.34E-05
	5	111.69	4.14E+01 +/- 2.14E+00	1.57E+00	3.35E-04 +/- 3.62E-05
	6	116.26	1.46E+01 +/- 2.86E+00	1.57E+00	3.58E-04 +/- 2.83E-05
M	7	125.98	2.47E+01 +/- 8.57E-01	1.55E+00	4.00E-04 +/- 2.37E-05
m	8	129.98	1.61E+02 +/- 2.91E+00	1.55E+00	4.14E-04 +/- 2.68E-05
	9	148.57	2.02E+01 +/- 1.45E+00	1.51E+00	4.63E-04 +/- 4.66E-05
	10	172.11	1.12E+01 +/- 1.39E+00	1.45E+00	4.88E-04 +/- 5.77E-05
	11	179.87	4.15E+00 +/- 8.77E-01	1.44E+00	4.90E-04 +/- 5.79E-05
	12	189.91	6.56E+00 +/- 1.27E+00	1.42E+00	4.89E-04 +/- 5.65E-05
	13	196.30	5.60E+00 +/- 1.18E+00	1.41E+00	4.87E-04 +/- 5.48E-05
	14	208.67	9.73E+01 +/- 2.17E+00	1.38E+00	4.80E-04 +/- 5.05E-05
	15	226.23	1.11E+00 +/- 5.39E-01	1.35E+00	4.66E-04 +/- 4.30E-05
	16	256.05	5.58E+00 +/- 8.81E-01	1.31E+00	4.36E-04 +/- 3.06E-05
M	17	264.68	2.15E+00 +/- 3.64E-01	1.30E+00	4.27E-04 +/- 2.75E-05
m	18	268.29	5.46E+00 +/- 5.90E-01	1.30E+00	4.23E-04 +/- 2.63E-05
	19	298.05	5.01E+00 +/- 9.23E-01	1.29E+00	3.91E-04 +/- 1.92E-05
	20	311.90	6.74E+00 +/- 7.37E-01	1.28E+00	3.77E-04 +/- 1.75E-05
M	21	321.81	4.33E+00 +/- 5.97E-01	1.28E+00	3.68E-04 +/- 1.69E-05
m	22	324.28	5.83E+00 +/- 6.46E-01	1.28E+00	3.65E-04 +/- 1.67E-05
M	23	333.43	4.56E+01 +/- 1.20E+00	1.28E+00	3.57E-04 +/- 1.65E-05
m	24	336.41	1.76E+01 +/- 6.11E-01	1.28E+00	3.54E-04 +/- 1.65E-05
M	25	342.14	1.52E+00 +/- 1.35E-01	1.28E+00	3.49E-04 +/- 1.65E-05
m	26	345.73	3.73E+01 +/- 5.77E-01	1.28E+00	3.46E-04 +/- 1.65E-05
	27	368.90	4.50E+00 +/- 1.02E+00	1.27E+00	3.26E-04 +/- 1.70E-05
	28	375.74	7.31E+01 +/- 1.73E+00	1.27E+00	3.21E-04 +/- 1.71E-05
M	29	380.91	1.76E+01 +/- 6.80E-01	1.27E+00	3.17E-04 +/- 1.72E-05
m	30	383.52	1.79E+01 +/- 6.55E-01	1.27E+00	3.15E-04 +/- 1.73E-05
	31	393.60	3.73E+01 +/- 8.89E-01	1.27E+00	3.08E-04 +/- 1.75E-05
	32	413.70	9.80E+01 +/- 1.62E+00	1.26E+00	2.94E-04 +/- 1.78E-05
	33	452.23	1.14E+01 +/- 4.58E-01	1.25E+00	2.70E-04 +/- 1.78E-05
	34	619.66	8.93E-01 +/- 1.58E-01	1.21E+00	2.02E-04 +/- 1.27E-05
	35	646.80	5.75E-01 +/- 1.14E-01	1.21E+00	1.94E-04 +/- 1.18E-05
	36	662.42	4.72E+00 +/- 2.59E-01	1.20E+00	1.90E-04 +/- 1.13E-05
	37	689.54	6.60E-01 +/- 1.05E-01	1.20E+00	1.84E-04 +/- 1.05E-05
	38	704.47	1.26E-01 +/- 7.39E-02	1.20E+00	1.81E-04 +/- 1.00E-05
	39	722.01	2.46E+00 +/- 1.77E-01	1.19E+00	1.77E-04 +/- 9.59E-06

40	756.89	2.34E-01	+/-	7.06E-02	1.19E+00	1.70E-04	+/-	8.81E-06
41	770.34	4.78E-01	+/-	9.17E-02	1.19E+00	1.68E-04	+/-	8.56E-06
42	1085.91	3.02E-02	+/-	2.37E-02	1.15E+00	1.29E-04	+/-	5.82E-06

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	1408.01	4.02E-02 +/- 2.01E-02	1.13E+00	1.06E-04 +/- 7.05E-06
44	2236.00	1.00E+02 +/- 1.59E+00	1.11E+00	7.00E-05 +/- 3.84E-05

Segment: 5 Detector: DET01 (# 1) Position: 5

Elapsed Live Time: 83.95 sec Elapsed Real Time: 115.00 sec

Analysis Warnings:
Minimum transmission used.

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.005 +/- 0.0025
SE-75	264.65	0.000 +/- 0.0000	0.220 +/- 0.0061
SE-75	279.53	0.000 +/- 0.0000	0.245 +/- 0.0092
SE-75	400.65	0.000 +/- 0.0000	0.353 +/- 0.0136

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.11	3.29E+01 +/- 1.29E+00	4.10E+00	2.83E-07 +/- 1.86E-06
	2	50.15	1.16E+01 +/- 1.88E+00	4.10E+00	1.61E-05 +/- 4.36E-05
	3	60.13	1.08E+03 +/- 1.47E+01	4.10E+00	4.78E-05 +/- 8.22E-05
	4	78.62	5.00E+00 +/- 1.92E+00	4.10E+00	1.49E-04 +/- 1.11E-04
	5	99.32	3.68E+02 +/- 6.63E+00	4.10E+00	2.77E-04 +/- 7.11E-05
	6	111.66	7.51E+01 +/- 3.25E+00	4.10E+00	3.41E-04 +/- 3.83E-05
	7	116.29	4.45E+01 +/- 4.31E+00	4.10E+00	3.61E-04 +/- 2.89E-05
M	8	125.90	4.80E+01 +/- 1.33E+00	4.10E+00	3.97E-04 +/- 2.36E-05
m	9	129.94	3.32E+02 +/- 5.41E+00	4.10E+00	4.09E-04 +/- 2.72E-05
M	10	144.84	2.25E+01 +/- 9.81E-01	3.26E+00	4.43E-04 +/- 4.48E-05
m	11	146.93	1.97E+01 +/- 9.26E-01	3.16E+00	4.46E-04 +/- 4.69E-05
m	12	149.19	4.84E+01 +/- 1.58E+00	3.06E+00	4.49E-04 +/- 4.89E-05
	13	161.51	3.53E+00 +/- 2.05E+00	2.68E+00	4.62E-04 +/- 5.67E-05
	14	172.08	1.65E+01 +/- 1.99E+00	2.47E+00	4.67E-04 +/- 5.93E-05
	15	179.83	6.96E+00 +/- 1.24E+00	2.35E+00	4.67E-04 +/- 5.93E-05
	16	189.91	1.23E+01 +/- 1.38E+00	2.23E+00	4.65E-04 +/- 5.77E-05
	17	196.33	1.30E+01 +/- 1.67E+00	2.16E+00	4.63E-04 +/- 5.58E-05
	18	204.17	5.56E+01 +/- 2.07E+00	2.08E+00	4.59E-04 +/- 5.30E-05
	19	208.65	1.67E+02 +/- 3.66E+00	2.04E+00	4.56E-04 +/- 5.12E-05
	20	222.32	2.13E+00 +/- 9.93E-01	1.93E+00	4.45E-04 +/- 4.52E-05

	21	238.40	1.94E+00	+/-	8.26E-01	1.83E+00	4.31E-04	+/- 3.79E-05
	22	244.70	3.95E+00	+/-	1.32E+00	1.79E+00	4.25E-04	+/- 3.51E-05
	23	256.05	1.42E+01	+/-	1.46E+00	1.73E+00	4.14E-04	+/- 3.05E-05
M	24	264.84	4.57E+00	+/-	5.45E-01	1.68E+00	4.06E-04	+/- 2.73E-05
m	25	268.16	1.13E+01	+/-	8.86E-01	1.67E+00	4.03E-04	+/- 2.62E-05
M	26	298.09	7.22E+00	+/-	7.70E-01	1.59E+00	3.74E-04	+/- 1.90E-05
m	27	300.72	1.54E+00	+/-	3.79E-01	1.59E+00	3.72E-04	+/- 1.86E-05
	28	311.90	8.21E+00	+/-	1.62E+00	1.57E+00	3.62E-04	+/- 1.74E-05
M	29	321.69	7.93E+00	+/-	7.87E-01	1.56E+00	3.53E-04	+/- 1.68E-05
m	30	324.05	1.17E+01	+/-	8.88E-01	1.55E+00	3.51E-04	+/- 1.68E-05
M	31	333.38	8.44E+01	+/-	1.94E+00	1.54E+00	3.43E-04	+/- 1.67E-05
m	32	336.29	2.97E+01	+/-	9.28E-01	1.53E+00	3.41E-04	+/- 1.67E-05
	33	345.66	7.06E+01	+/-	1.48E+00	1.52E+00	3.33E-04	+/- 1.69E-05
	34	375.71	1.45E+02	+/-	2.92E+00	1.48E+00	3.11E-04	+/- 1.79E-05
M	35	380.87	3.38E+01	+/-	1.06E+00	1.47E+00	3.07E-04	+/- 1.81E-05
m	36	383.44	3.18E+01	+/-	9.95E-01	1.47E+00	3.06E-04	+/- 1.82E-05
	37	393.56	7.27E+01	+/-	1.51E+00	1.46E+00	2.99E-04	+/- 1.85E-05
	38	400.66	1.13E+00	+/-	5.78E-01	1.45E+00	2.94E-04	+/- 1.87E-05
	39	413.70	1.92E+02	+/-	2.97E+00	1.44E+00	2.86E-04	+/- 1.90E-05
	40	423.24	1.26E+01	+/-	6.88E-01	1.44E+00	2.81E-04	+/- 1.91E-05
	41	452.11	2.22E+01	+/-	7.15E-01	1.42E+00	2.65E-04	+/- 1.91E-05
	42	482.08	7.56E-01	+/-	3.18E-01	1.41E+00	2.50E-04	+/- 1.87E-05

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
	43	583.64	2.28E-01 +/- 1.34E-01	1.37E+00	2.12E-04 +/- 1.52E-05
	44	598.16	3.07E-01 +/- 1.83E-01	1.36E+00	2.07E-04 +/- 1.46E-05
	45	619.66	2.42E+00 +/- 2.55E-01	1.35E+00	2.01E-04 +/- 1.37E-05
	46	646.57	7.59E-01 +/- 1.90E-01	1.35E+00	1.94E-04 +/- 1.27E-05
	47	653.30	1.08E+00 +/- 2.60E-01	1.34E+00	1.92E-04 +/- 1.24E-05
M	48	659.58	5.76E-01 +/- 1.18E-01	1.34E+00	1.91E-04 +/- 1.22E-05
m	49	663.22	9.71E+00 +/- 5.46E-01	1.34E+00	1.90E-04 +/- 1.20E-05
	50	689.51	1.04E+00 +/- 1.80E-01	1.33E+00	1.84E-04 +/- 1.11E-05
M	51	718.30	2.21E-01 +/- 6.99E-02	1.33E+00	1.77E-04 +/- 1.02E-05
m	52	722.69	4.85E+00 +/- 3.69E-01	1.32E+00	1.76E-04 +/- 1.01E-05
	53	756.89	3.96E-01 +/- 1.04E-01	1.32E+00	1.70E-04 +/- 9.13E-06
	54	770.04	1.37E+00 +/- 1.50E-01	1.31E+00	1.67E-04 +/- 8.82E-06
	55	964.13	5.84E-02 +/- 2.61E-02	1.27E+00	1.39E-04 +/- 6.40E-06
	56	1001.03	3.43E-02 +/- 2.70E-02	1.27E+00	1.35E-04 +/- 6.17E-06
	57	1085.91	2.34E-02 +/- 1.65E-02	1.25E+00	1.26E-04 +/- 5.69E-06
	58	2236.00	1.00E+02 +/- 1.70E+00	1.18E+00	5.76E-05 +/- 3.29E-05
	59	2295.42	1.47E-01 +/- 6.18E-02	1.18E+00	5.53E-05 +/- 3.46E-05

Segment: 6 Detector: DET01 (# 1) Position: 6

Elapsed Live Time: 84.05 sec Elapsed Real Time: 115.00 sec

Analysis Warnings:
Minimum transmission used.

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.005 +/- 0.0025
SE-75	264.65	0.000 +/- 0.0000	0.203 +/- 0.0058
SE-75	279.53	0.000 +/- 0.0000	0.217 +/- 0.0088
SE-75	400.65	0.000 +/- 0.0000	0.331 +/- 0.0133

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.05	2.96E+01 +/- 1.28E+00	4.10E+00	4.71E-07 +/- 2.96E-06
2	50.08	1.04E+01 +/- 1.87E+00	4.10E+00	2.18E-05 +/- 5.62E-05
3	60.13	1.02E+03 +/- 1.40E+01	4.10E+00	6.06E-05 +/- 9.92E-05
4	99.33	3.64E+02 +/- 6.65E+00	4.10E+00	3.06E-04 +/- 7.50E-05
5	111.67	7.16E+01 +/- 3.28E+00	4.10E+00	3.68E-04 +/- 4.00E-05

	6	116.26	4.04E+01	+/- 4.33E+00	4.10E+00	3.88E-04	+/-	3.04E-05
M	7	125.90	5.05E+01	+/- 1.37E+00	4.10E+00	4.21E-04	+/-	2.46E-05
m	8	129.94	3.40E+02	+/- 5.55E+00	4.10E+00	4.33E-04	+/-	2.80E-05
	9	144.74	5.35E+00	+/- 1.83E+00	3.31E+00	4.64E-04	+/-	4.49E-05
	10	148.57	3.91E+01	+/- 2.16E+00	3.13E+00	4.69E-04	+/-	4.84E-05
M	11	170.16	6.71E+00	+/- 8.40E-01	2.56E+00	4.84E-04	+/-	5.86E-05
m	12	172.01	1.30E+01	+/- 1.16E+00	2.53E+00	4.85E-04	+/-	5.88E-05
	13	179.71	6.85E+00	+/- 1.16E+00	2.41E+00	4.85E-04	+/-	5.88E-05
	14	189.94	7.51E+00	+/- 1.81E+00	2.28E+00	4.82E-04	+/-	5.72E-05
	15	196.25	1.65E+01	+/- 1.90E+00	2.21E+00	4.80E-04	+/-	5.54E-05
	16	204.18	6.26E+01	+/- 1.79E+00	2.13E+00	4.75E-04	+/-	5.27E-05
	17	208.66	1.64E+02	+/- 3.69E+00	2.09E+00	4.72E-04	+/-	5.09E-05
	18	256.11	1.07E+01	+/- 1.28E+00	1.77E+00	4.33E-04	+/-	3.09E-05
M	19	264.67	4.25E+00	+/- 5.50E-01	1.73E+00	4.25E-04	+/-	2.79E-05
m	20	268.19	1.01E+01	+/- 8.83E-01	1.72E+00	4.21E-04	+/-	2.67E-05
	21	298.11	6.62E+00	+/- 1.01E+00	1.65E+00	3.94E-04	+/-	1.97E-05
	22	311.90	9.40E+00	+/- 9.75E-01	1.62E+00	3.82E-04	+/-	1.81E-05
M	23	321.70	9.85E+00	+/- 8.13E-01	1.61E+00	3.74E-04	+/-	1.75E-05
m	24	324.10	1.34E+01	+/- 9.02E-01	1.60E+00	3.72E-04	+/-	1.74E-05
M	25	333.37	8.64E+01	+/- 1.97E+00	1.58E+00	3.65E-04	+/-	1.73E-05
m	26	336.32	3.04E+01	+/- 9.44E-01	1.58E+00	3.62E-04	+/-	1.73E-05
M	27	342.11	8.07E+00	+/- 4.90E-01	1.57E+00	3.58E-04	+/-	1.74E-05
m	28	345.68	7.95E+01	+/- 1.90E+00	1.56E+00	3.55E-04	+/-	1.74E-05
	29	368.90	4.35E+00	+/- 1.51E+00	1.53E+00	3.38E-04	+/-	1.82E-05
	30	375.71	1.47E+02	+/- 2.97E+00	1.51E+00	3.34E-04	+/-	1.84E-05
M	31	380.88	3.54E+01	+/- 1.09E+00	1.51E+00	3.30E-04	+/-	1.86E-05
m	32	383.46	3.37E+01	+/- 1.02E+00	1.50E+00	3.28E-04	+/-	1.87E-05
	33	393.56	7.28E+01	+/- 1.52E+00	1.49E+00	3.22E-04	+/-	1.90E-05
	34	413.70	1.95E+02	+/- 3.04E+00	1.47E+00	3.09E-04	+/-	1.95E-05
	35	423.25	9.59E+00	+/- 6.56E-01	1.47E+00	3.04E-04	+/-	1.96E-05
	36	446.35	7.74E-01	+/- 5.40E-01	1.45E+00	2.91E-04	+/-	1.97E-05
	37	452.12	2.27E+01	+/- 7.36E-01	1.45E+00	2.88E-04	+/-	1.97E-05
	38	482.29	1.01E+00	+/- 3.33E-01	1.44E+00	2.73E-04	+/-	1.93E-05
	39	512.91	3.63E-01	+/- 1.86E-01	1.42E+00	2.60E-04	+/-	1.85E-05
	40	598.36	3.04E-01	+/- 1.32E-01	1.39E+00	2.29E-04	+/-	1.52E-05
	41	619.76	2.06E+00	+/- 2.38E-01	1.38E+00	2.22E-04	+/-	1.43E-05
	42	640.87	9.07E-01	+/- 2.18E-01	1.37E+00	2.16E-04	+/-	1.35E-05

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
	43	646.55	6.63E-01 +/- 2.49E-01	1.37E+00	2.15E-04 +/- 1.32E-05
	44	653.20	1.32E+00 +/- 2.41E-01	1.37E+00	2.13E-04 +/- 1.30E-05
M	45	659.79	5.77E-01 +/- 1.25E-01	1.37E+00	2.11E-04 +/- 1.27E-05
m	46	663.15	9.34E+00 +/- 5.38E-01	1.36E+00	2.10E-04 +/- 1.26E-05
	47	689.45	7.25E-01 +/- 1.57E-01	1.36E+00	2.03E-04 +/- 1.16E-05
	48	710.64	1.53E-01 +/- 9.61E-02	1.35E+00	1.98E-04 +/- 1.09E-05
	49	722.01	5.11E+00 +/- 2.82E-01	1.35E+00	1.95E-04 +/- 1.05E-05
	50	737.96	2.07E-01 +/- 8.98E-02	1.34E+00	1.92E-04 +/- 1.00E-05
	51	756.83	4.77E-01 +/- 1.10E-01	1.34E+00	1.88E-04 +/- 9.53E-06
	52	769.87	1.48E+00 +/- 1.61E-01	1.33E+00	1.85E-04 +/- 9.20E-06
	53	1112.12	8.27E-02 +/- 3.13E-02	1.27E+00	1.31E-04 +/- 5.52E-06
	54	2236.00	1.00E+02 +/- 1.71E+00	1.19E+00	4.34E-05 +/- 2.42E-05

Segment: 7 Detector: DET01 (# 1) Position: 7

Elapsed Live Time: 95.75 sec Elapsed Real Time: 115.00 sec

Analysis Warnings:
Some transmission peaks rejected.

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.000 +/- 0.0000
SE-75	264.65	0.000 +/- 0.0000	0.297 +/- 0.0064
SE-75	279.53	0.000 +/- 0.0000	0.310 +/- 0.0085
SE-75	400.65	0.000 +/- 0.0000	0.378 +/- 0.0124

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.07	1.91E+01 +/- 9.24E-01	2.44E+00	5.00E-09 +/- 2.86E-08
	2	50.07	1.35E+01 +/- 1.68E+00	1.96E+00	2.89E-06 +/- 6.79E-06
	3	60.14	6.68E+02 +/- 8.93E+00	1.86E+00	1.60E-05 +/- 2.38E-05
	4	99.35	2.04E+02 +/- 4.20E+00	1.71E+00	2.43E-04 +/- 5.52E-05
	5	111.68	4.64E+01 +/- 2.34E+00	1.69E+00	3.35E-04 +/- 3.49E-05
	6	116.22	3.03E+01 +/- 2.98E+00	1.68E+00	3.66E-04 +/- 2.83E-05
M	7	125.93	2.77E+01 +/- 9.34E-01	1.67E+00	4.24E-04 +/- 2.46E-05
m	8	129.97	1.94E+02 +/- 3.40E+00	1.66E+00	4.45E-04 +/- 2.77E-05
	9	148.57	2.20E+01 +/- 1.56E+00	1.64E+00	5.16E-04 +/- 4.85E-05
	10	161.46	4.90E+00 +/- 1.41E+00	1.62E+00	5.43E-04 +/- 5.77E-05

	11	172.17	9.68E+00	+/- 1.56E+00	1.61E+00	5.55E-04	+/-	6.09E-05
	12	179.74	4.69E+00	+/- 1.35E+00	1.60E+00	5.58E-04	+/-	6.12E-05
	13	190.02	5.20E+00	+/- 1.02E+00	1.59E+00	5.58E-04	+/-	5.97E-05
	14	196.25	6.80E+00	+/- 1.24E+00	1.59E+00	5.56E-04	+/-	5.79E-05
	15	204.18	3.28E+01	+/- 1.47E+00	1.58E+00	5.51E-04	+/-	5.51E-05
	16	208.67	8.75E+01	+/- 2.38E+00	1.58E+00	5.47E-04	+/-	5.32E-05
	17	238.80	1.53E+00	+/- 6.12E-01	1.55E+00	5.13E-04	+/-	3.92E-05
	18	256.06	7.98E+00	+/- 9.40E-01	1.54E+00	4.90E-04	+/-	3.18E-05
M	19	264.60	1.63E+00	+/- 3.62E-01	1.53E+00	4.78E-04	+/-	2.86E-05
m	20	268.19	4.85E+00	+/- 6.25E-01	1.53E+00	4.73E-04	+/-	2.74E-05
	21	298.12	3.63E+00	+/- 1.03E+00	1.49E+00	4.34E-04	+/-	2.02E-05
	22	311.90	5.42E+00	+/- 7.71E-01	1.48E+00	4.17E-04	+/-	1.86E-05
M	23	321.65	4.74E+00	+/- 5.55E-01	1.47E+00	4.05E-04	+/-	1.79E-05
m	24	324.12	7.06E+00	+/- 6.41E-01	1.47E+00	4.02E-04	+/-	1.78E-05
M	25	333.42	4.97E+01	+/- 1.28E+00	1.46E+00	3.91E-04	+/-	1.76E-05
m	26	336.38	1.95E+01	+/- 6.56E-01	1.46E+00	3.88E-04	+/-	1.76E-05
	27	345.68	1.90E+01	+/- 1.61E+00	1.45E+00	3.78E-04	+/-	1.76E-05
	28	369.01	4.91E+00	+/- 1.05E+00	1.44E+00	3.55E-04	+/-	1.81E-05
	29	375.75	8.06E+01	+/- 1.86E+00	1.43E+00	3.48E-04	+/-	1.82E-05
M	30	380.89	1.91E+01	+/- 7.29E-01	1.43E+00	3.44E-04	+/-	1.83E-05
m	31	383.49	1.72E+01	+/- 6.53E-01	1.43E+00	3.41E-04	+/-	1.84E-05
	32	393.59	3.91E+01	+/- 9.65E-01	1.42E+00	3.33E-04	+/-	1.86E-05
	33	413.70	1.05E+02	+/- 1.73E+00	1.41E+00	3.17E-04	+/-	1.88E-05
	34	423.30	5.47E+00	+/- 4.30E-01	1.40E+00	3.10E-04	+/-	1.88E-05
	35	446.46	6.83E-01	+/- 2.71E-01	1.39E+00	2.94E-04	+/-	1.87E-05
	36	452.22	1.23E+01	+/- 4.88E-01	1.39E+00	2.90E-04	+/-	1.86E-05
	37	619.71	9.76E-01	+/- 1.75E-01	1.33E+00	2.15E-04	+/-	1.32E-05
	38	646.62	5.32E-01	+/- 1.32E-01	1.32E+00	2.07E-04	+/-	1.23E-05
	39	653.15	7.92E-01	+/- 1.78E-01	1.32E+00	2.06E-04	+/-	1.20E-05
M	40	659.63	3.33E-01	+/- 8.58E-02	1.32E+00	2.04E-04	+/-	1.18E-05
m	41	663.22	5.50E+00	+/- 3.89E-01	1.32E+00	2.03E-04	+/-	1.17E-05
	42	689.44	6.80E-01	+/- 1.15E-01	1.31E+00	1.96E-04	+/-	1.09E-05

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	704.47	1.76E-01 +/- 7.00E-02	1.31E+00	1.93E-04 +/- 1.05E-05
44	722.01	2.80E+00 +/- 1.95E-01	1.30E+00	1.89E-04 +/- 9.99E-06
45	770.02	8.46E-01 +/- 1.23E-01	1.29E+00	1.79E-04 +/- 8.90E-06
46	778.90	9.18E-02 +/- 3.95E-02	1.29E+00	1.77E-04 +/- 8.73E-06
47	1408.01	1.04E-02 +/- 1.04E-02	1.20E+00	1.05E-04 +/- 7.16E-06
48	2236.00	1.00E+02 +/- 1.62E+00	1.17E+00	5.07E-05 +/- 2.69E-05

Segment: 8 Detector: DET01 (# 1) Position: 8

Elapsed Live Time: 108.08 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.345 +/- 0.0166
SE-75	264.65	0.000 +/- 0.0000	0.512 +/- 0.0093
SE-75	279.53	0.000 +/- 0.0000	0.518 +/- 0.0111
SE-75	400.65	0.000 +/- 0.0000	0.570 +/- 0.0140

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.90	3.15E+00 +/- 3.63E-01	2.00E+00	7.46E-06 +/- 7.30E-06
	2	50.01	4.33E+00 +/- 9.84E-01	1.67E+00	5.93E-05 +/- 2.92E-05
	3	60.16	1.96E+02 +/- 2.90E+00	1.60E+00	1.10E-04 +/- 3.84E-05
	4	99.37	5.51E+01 +/- 1.92E+00	1.50E+00	3.25E-04 +/- 3.31E-05
	5	111.72	1.29E+01 +/- 1.29E+00	1.48E+00	3.75E-04 +/- 2.72E-05
	6	116.23	7.00E+00 +/- 1.59E+00	1.48E+00	3.91E-04 +/- 2.56E-05
M	7	125.96	8.68E+00 +/- 4.95E-01	1.47E+00	4.19E-04 +/- 2.31E-05
m	8	129.99	5.51E+01 +/- 1.40E+00	1.46E+00	4.29E-04 +/- 2.26E-05
	9	148.57	7.21E+00 +/- 9.02E-01	1.43E+00	4.62E-04 +/- 2.28E-05
	10	171.30	2.75E+00 +/- 8.72E-01	1.40E+00	4.80E-04 +/- 2.51E-05
	11	190.08	2.11E+00 +/- 6.66E-01	1.37E+00	4.81E-04 +/- 2.61E-05
	12	196.44	2.92E+00 +/- 8.49E-01	1.36E+00	4.79E-04 +/- 2.62E-05
	13	204.21	9.00E+00 +/- 5.91E-01	1.35E+00	4.76E-04 +/- 2.61E-05
	14	208.69	2.35E+01 +/- 1.14E+00	1.34E+00	4.74E-04 +/- 2.60E-05
	15	255.99	1.17E+00 +/- 4.43E-01	1.28E+00	4.39E-04 +/- 2.28E-05
M	16	264.49	9.01E-01 +/- 2.59E-01	1.28E+00	4.32E-04 +/- 2.21E-05
m	17	268.14	1.42E+00 +/- 3.40E-01	1.27E+00	4.28E-04 +/- 2.17E-05
	18	298.22	1.43E+00 +/- 4.62E-01	1.26E+00	4.01E-04 +/- 1.90E-05
	19	311.90	1.65E+00 +/- 4.28E-01	1.26E+00	3.88E-04 +/- 1.78E-05

20	324.51	1.99E+00	+/- 5.85E-01	1.25E+00	3.77E-04	+/- 1.69E-05
M 21	333.44	1.21E+01	+/- 5.91E-01	1.25E+00	3.69E-04	+/- 1.62E-05
m 22	336.39	4.66E+00	+/- 3.22E-01	1.25E+00	3.67E-04	+/- 1.60E-05
M 23	342.28	1.02E+00	+/- 1.89E-01	1.25E+00	3.61E-04	+/- 1.56E-05
m 24	345.76	1.07E+01	+/- 5.78E-01	1.25E+00	3.59E-04	+/- 1.54E-05
25	368.97	1.10E+00	+/- 5.62E-01	1.24E+00	3.39E-04	+/- 1.41E-05
26	375.76	2.00E+01	+/- 7.87E-01	1.24E+00	3.34E-04	+/- 1.38E-05
M 27	380.92	4.38E+00	+/- 3.34E-01	1.24E+00	3.30E-04	+/- 1.36E-05
m 28	383.51	4.42E+00	+/- 3.23E-01	1.23E+00	3.28E-04	+/- 1.35E-05
29	393.68	1.07E+01	+/- 4.32E-01	1.23E+00	3.21E-04	+/- 1.31E-05
30	413.70	2.84E+01	+/- 6.55E-01	1.23E+00	3.06E-04	+/- 1.25E-05
31	423.20	1.57E+00	+/- 2.26E-01	1.22E+00	3.00E-04	+/- 1.22E-05
32	452.26	3.39E+00	+/- 2.11E-01	1.22E+00	2.82E-04	+/- 1.16E-05
33	619.77	2.74E-01	+/- 1.04E-01	1.18E+00	2.06E-04	+/- 9.86E-06
34	646.72	9.69E-02	+/- 6.46E-02	1.18E+00	1.98E-04	+/- 9.58E-06
35	652.83	1.75E-01	+/- 7.21E-02	1.18E+00	1.96E-04	+/- 9.51E-06
36	662.42	1.28E+00	+/- 1.33E-01	1.18E+00	1.93E-04	+/- 9.41E-06
37	722.01	7.97E-01	+/- 9.21E-02	1.17E+00	1.78E-04	+/- 8.71E-06
38	964.13	3.97E-02	+/- 2.87E-02	1.14E+00	1.39E-04	+/- 5.73E-06
39	1085.91	4.58E-02	+/- 2.05E-02	1.13E+00	1.28E-04	+/- 4.75E-06
40	1112.12	3.66E-02	+/- 1.83E-02	1.13E+00	1.26E-04	+/- 4.65E-06
41	2236.00	1.00E+02	+/- 1.53E+00	1.09E+00	1.19E-04	+/- 2.92E-05

Segment: 9 Detector: DET01 (# 1) Position: 9

Elapsed Live Time: 112.67 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.343 +/- 0.0142
SE-75	264.65	0.000 +/- 0.0000	0.518 +/- 0.0092
SE-75	279.53	0.000 +/- 0.0000	0.527 +/- 0.0108
SE-75	400.65	0.000 +/- 0.0000	0.578 +/- 0.0137

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.85	1.55E+00 +/- 2.24E-01	2.01E+00	5.57E-09 +/- 3.39E-08
2	60.09	3.06E+01 +/- 8.78E-01	1.60E+00	1.63E-05 +/- 2.56E-05
3	67.75	2.37E+00 +/- 5.22E-01	1.57E+00	3.89E-05 +/- 4.34E-05
4	95.45	2.15E+00 +/- 9.98E-01	1.51E+00	2.07E-04 +/- 6.11E-05
5	99.49	3.63E+00 +/- 7.91E-01	1.50E+00	2.37E-04 +/- 5.56E-05
6	129.29	1.14E+00 +/- 8.76E-01	1.47E+00	4.21E-04 +/- 2.66E-05
7	208.67	1.12E+00 +/- 3.05E-01	1.34E+00	5.11E-04 +/- 5.15E-05
8	264.66	4.97E-01 +/- 3.16E-01	1.27E+00	4.42E-04 +/- 2.72E-05

9	375.72	4.07E-01 +/-	1.90E-01	1.23E+00	3.18E-04 +/-	1.78E-05
10	413.70	5.52E-01 +/-	1.04E-01	1.22E+00	2.88E-04 +/-	1.83E-05
11	452.15	1.10E-01 +/-	6.56E-02	1.21E+00	2.63E-04 +/-	1.81E-05
12	867.39	8.81E-03 +/-	8.81E-03	1.15E+00	1.49E-04 +/-	7.00E-06
13	1085.91	2.64E-02 +/-	1.53E-02	1.13E+00	1.27E-04 +/-	5.58E-06
14	2236.00	1.00E+02 +/-	1.51E+00	1.09E+00	6.12E-05 +/-	3.31E-05

Segment: 10 Detector: DET01 (# 1) Position: 10

Elapsed Live Time: 113.26 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.320 +/- 0.0142
SE-75	264.65	0.000 +/- 0.0000	0.474 +/- 0.0085
SE-75	279.53	0.000 +/- 0.0000	0.488 +/- 0.0100
SE-75	400.65	0.000 +/- 0.0000	0.534 +/- 0.0127

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.06	1.14E+00 +/- 1.97E-01	2.07E+00	1.67E-05 +/- 1.65E-05
2	60.14	1.28E+01 +/- 6.10E-01	1.65E+00	1.37E-04 +/- 4.88E-05
3	279.54	8.88E-01 +/- 3.28E-01	1.30E+00	4.12E-04 +/- 2.03E-05
4	778.90	5.23E-02 +/- 2.13E-02	1.18E+00	1.76E-04 +/- 8.75E-06
5	964.13	3.81E-02 +/- 2.67E-02	1.16E+00	1.45E-04 +/- 6.11E-06
6	1001.03	6.10E-02 +/- 2.31E-02	1.16E+00	1.41E-04 +/- 5.67E-06
7	2236.00	1.00E+02 +/- 1.50E+00	1.11E+00	9.04E-05 +/- 2.29E-05

Segment: 11 Detector: DET01 (# 1) Position: 11

Elapsed Live Time: 113.55 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.207 +/- 0.0104
SE-75	264.65	0.000 +/- 0.0000	0.311 +/- 0.0033
SE-75	279.53	0.000 +/- 0.0000	0.325 +/- 0.0052
SE-75	400.65	0.000 +/- 0.0000	0.372 +/- 0.0079

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.14	1.27E+00 +/- 2.22E-01	2.58E+00	1.32E-03 +/- 8.49E-03
2	49.68	2.35E+00 +/- 4.23E-01	2.06E+00	6.05E-04 +/- 1.63E-03
3	60.19	4.62E+00 +/- 4.71E-01	1.94E+00	5.03E-04 +/- 8.46E-04
4	1085.91	1.75E-02 +/- 1.24E-02	1.24E+00	1.27E-04 +/- 5.57E-06
5	2236.00	1.00E+02 +/- 1.50E+00	1.17E+00	5.79E-05 +/- 3.30E-05

Segment: 12 Detector: DET01 (# 1) Position: 12

Elapsed Live Time: 113.77 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.092 +/- 0.0078
SE-75	264.65	0.000 +/- 0.0000	0.145 +/- 0.0022
SE-75	279.53	0.000 +/- 0.0000	0.149 +/- 0.0036
SE-75	400.65	0.000 +/- 0.0000	0.189 +/- 0.0054

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.12	1.12E+00 +/- 1.73E-01	3.64E+00	2.49E-09 +/- 1.53E-08
	2	49.38	2.06E+00 +/- 3.77E-01	2.75E+00	1.80E-06 +/- 4.67E-06
M	3	57.64	1.80E+00 +/- 2.57E-01	2.59E+00	8.86E-06 +/- 1.59E-05
m	4	60.02	1.78E+00 +/- 2.54E-01	2.56E+00	1.27E-05 +/- 2.05E-05
	5	300.10	3.04E-01 +/- 1.61E-01	1.87E+00	4.04E-04 +/- 1.94E-05
	6	511.64	1.80E-01 +/- 5.00E-02	1.67E+00	2.30E-04 +/- 1.67E-05
	7	1408.01	8.68E-03 +/- 8.68E-03	1.36E+00	1.08E-04 +/- 7.12E-06

8	2236.00	1.00E+02 +/- 1.50E+00	1.29E+00	6.48E-05 +/-	3.54E-05

Segment: 13 Detector: DET01 (# 1) Position: 13

Elapsed Live Time: 114.02 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.330 +/- 0.0102
SE-75	264.65	0.000 +/- 0.0000	0.432 +/- 0.0039
SE-75	279.53	0.000 +/- 0.0000	0.431 +/- 0.0060
SE-75	400.65	0.000 +/- 0.0000	0.488 +/- 0.0092

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.15	4.12E-01 +/- 1.22E-01	2.04E+00	1.83E-08 +/- 1.19E-07
2	60.17	1.35E+00 +/- 3.12E-01	1.63E+00	2.29E-05 +/- 3.88E-05
3	1001.03	6.11E-02 +/- 2.31E-02	1.18E+00	1.41E-04 +/- 6.24E-06
4	1408.01	2.62E-02 +/- 1.51E-02	1.15E+00	1.05E-04 +/- 7.00E-06
5	2236.00	1.00E+02 +/- 1.50E+00	1.12E+00	5.36E-05 +/- 3.03E-05

Segment: 14 Detector: DET01 (# 1) Position: 14

Elapsed Live Time: 114.12 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.837 +/- 0.0224
SE-75	264.65	0.000 +/- 0.0000	0.876 +/- 0.0149
SE-75	279.53	0.000 +/- 0.0000	0.863 +/- 0.0162
SE-75	400.65	0.000 +/- 0.0000	0.891 +/- 0.0192

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.89	2.06E-01 +/- 1.02E-01	1.14E+00	3.37E-06 +/- 2.04E-05
2	50.33	1.38E+00 +/- 2.92E-01	1.10E+00	4.75E-05 +/- 1.16E-04
3	59.80	8.51E-01 +/- 2.52E-01	1.09E+00	9.38E-05 +/- 1.49E-04
4	400.66	9.22E-02 +/- 5.22E-02	1.04E+00	3.06E-04 +/- 1.78E-05
5	413.70	8.57E-02 +/- 5.80E-02	1.04E+00	2.98E-04 +/- 1.80E-05
6	867.39	3.45E-02 +/- 1.73E-02	1.03E+00	1.55E-04 +/- 7.11E-06
7	2236.00	1.00E+02 +/- 1.49E+00	1.02E+00	7.64E-05 +/- 4.15E-05

Segment: 15 Detector: DET01 (# 1) Position: 15

Elapsed Live Time: 114.21 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.827 +/- 0.0229
SE-75	264.65	0.000 +/- 0.0000	0.906 +/- 0.0154
SE-75	279.53	0.000 +/- 0.0000	0.914 +/- 0.0171
SE-75	400.65	0.000 +/- 0.0000	0.929 +/- 0.0199

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	34.13	3.42E-01 +/- 1.23E-01	1.14E+00	4.34E-09 +/- 2.45E-08
2	964.13	2.62E-02 +/- 1.51E-02	1.02E+00	1.33E-04 +/- 6.09E-06
3	2236.00	1.00E+02 +/- 1.50E+00	1.01E+00	3.18E-05 +/- 1.80E-05

Segment: 16 Detector: DET01 (# 1) Position: 16

Elapsed Live Time: 114.22 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.762 +/- 0.0211
SE-75	264.65	0.000 +/- 0.0000	0.842 +/- 0.0144
SE-75	279.53	0.000 +/- 0.0000	0.852 +/- 0.0160
SE-75	400.65	0.000 +/- 0.0000	0.873 +/- 0.0188

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.32	3.85E-01 +/- 1.18E-01	1.21E+00	4.22E-06 +/- 5.01E-06
2	59.99	4.84E-01 +/- 1.88E-01	1.14E+00	5.57E-05 +/- 2.41E-05
3	400.66	5.91E-02 +/- 4.23E-02	1.05E+00	1.84E-04 +/- 9.10E-06
4	778.90	8.63E-03 +/- 8.63E-03	1.04E+00	9.86E-05 +/- 6.05E-06
5	964.13	1.73E-02 +/- 1.22E-02	1.03E+00	8.21E-05 +/- 4.35E-06
6	1001.03	1.87E-02 +/- 1.76E-02	1.03E+00	7.97E-05 +/- 4.05E-06
7	2236.00	1.00E+02 +/- 1.49E+00	1.02E+00	6.28E-05 +/- 1.87E-05

Summed Spectrum

Peak Locate Report

Sample ID: S100-2645
Peak Locate Performed on: 4-01-08 11:22:50 AM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192
Peak Search Sensitivity: 5.00

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
1	64.74	0.1070	32.04	38.31
2	100.68	0.1504	50.01	15.97
3	120.95	0.0320	60.14	425.59
4	151.89	0.2884	75.61	6.56
5	199.36	0.0418	99.34	232.18
6	224.03	0.0610	111.68	115.48
7	233.15	0.0697	116.24	45.70
8	260.58	0.0421	129.95	228.92
9	290.15	0.1367	144.74	28.12
10	299.16	0.0866	149.24	62.32
11	344.89	0.1651	172.11	17.79
12	360.28	0.1666	179.80	15.50
13	380.62	0.1478	189.97	18.48
14	393.21	0.1300	196.27	25.77
15	409.04	0.0643	204.19	103.41
16	417.99	0.0435	208.66	220.97
17	488.71	0.2211	244.02	8.17
18	512.76	0.1217	256.05	27.76
19	529.92	0.2037	264.66	11.17
20	537.07	0.1270	268.21	27.32
21	596.90	0.1423	298.12	22.16
22	625.72	0.1067	312.53	34.56
23	643.35	0.1959	321.67	12.69
24	649.18	0.1541	324.14	15.05
25	667.37	0.0600	333.39	107.03
26	673.84	0.0971	336.34	49.79
27	684.49	0.1463	342.11	23.62
28	692.02	0.0596	345.69	115.45
29	725.82	0.2461	362.58	6.77
30	738.53	0.0920	368.93	38.55
31	752.12	0.0448	375.73	193.68
32	762.08	0.0806	380.89	68.87
33	767.91	0.0879	383.47	59.48
34	787.83	0.0609	393.58	101.76
35	801.11	0.2539	400.22	5.61
36	829.47	0.0443	414.40	176.67

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
37	847.19	0.0879	423.26	49.51
38	893.46	0.2121	446.39	8.48
39	905.01	0.0784	452.17	63.82
40	965.26	0.2571	482.29	6.07
41	1240.13	0.1503	619.73	16.18
42	1268.28	0.2634	633.81	5.35
43	1293.94	0.1636	646.63	13.98
44	1307.16	0.1682	653.25	12.31
45	1319.33	0.2855	659.67	6.79
46	1327.09	0.0949	663.21	39.74
47	1379.65	0.1810	689.49	10.65
48	1446.18	0.1111	722.76	27.33
49	1514.46	0.2235	756.90	6.68
50	1540.74	0.1846	770.03	10.63
51	4473.32	0.0270	2236.33	397.75

Errors quoted at 1.000 sigma

Summed Spectrum

Peak Analysis Report

Sample ID: S100-2645
Peak Analysis Performed on: 4-01-08 11:22:51 AM
Peak Analysis From Channel: 40
Peak Analysis To Channel: 8192

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	1	60-	71	64.74	32.04	1.15E+04	216.67	1.30E+04
	2	94-	105	100.68	50.01	7.62E+03	395.00	5.75E+04
	3	114-	127	120.95	60.14	3.26E+05	717.19	6.86E+04
	4	145-	158	151.89	75.61	2.52E+03	421.61	6.27E+04
	5	194-	203	199.36	99.34	1.09E+05	778.27	2.21E+05
	6	217-	227	224.03	111.68	2.28E+04	546.45	1.13E+05
	7	227-	239	233.15	116.24	1.76E+04	694.37	1.64E+05
	8	256-	267	260.58	129.95	8.41E+04	506.16	6.70E+04
	9	283-	293	290.15	144.74	7.35E+02	337.36	4.68E+04
	10	293-	304	299.16	149.24	1.20E+04	378.58	5.21E+04
	11	338-	351	344.89	172.11	5.73E+03	375.48	4.90E+04
	12	356-	365	360.28	179.80	2.26E+03	278.18	3.32E+04
	13	375-	387	380.62	189.97	3.33E+03	334.15	4.11E+04
	14	387-	400	393.21	196.27	4.29E+03	346.03	4.19E+04
	15	401-	412	409.04	204.19	1.70E+04	342.79	4.01E+04
	16	412-	425	417.99	208.66	4.85E+04	496.52	6.74E+04
	17	485-	496	488.71	244.02	7.31E+02	228.12	2.04E+04
	18	508-	520	512.76	256.05	3.55E+03	232.30	1.91E+04
M	19	525-	544	529.99	264.66	1.20E+03	96.13	1.08E+04
m	20	525-	544	537.08	268.21	3.12E+03	156.34	1.02E+04
	21	593-	604	596.90	298.12	2.07E+03	188.73	1.33E+04
	22	620-	630	625.72	312.53	3.20E+03	176.76	1.18E+04
M	23	639-	656	644.01	321.67	2.76E+03	142.85	1.08E+04
m	24	639-	656	648.95	324.14	3.93E+03	159.49	1.31E+04
M	25	663-	681	667.46	333.39	2.57E+04	263.83	9.04E+03
m	26	663-	681	673.34	336.34	8.93E+03	139.70	1.07E+04
M	27	681-	699	684.90	342.11	2.55E+03	82.44	6.43E+03
m	28	681-	699	692.05	345.69	2.33E+04	257.99	5.91E+03
	29	722-	730	725.82	362.58	3.43E+02	110.70	5.56E+03
	30	730-	746	738.53	368.93	9.77E+02	256.23	1.95E+04
	31	746-	759	752.12	375.73	4.36E+04	361.14	2.87E+04
M	32	759-	775	762.44	380.89	1.03E+04	157.79	6.29E+03
m	33	759-	775	767.61	383.47	9.86E+03	147.75	4.74E+03
	34	780-	795	787.83	393.58	2.17E+04	191.47	5.00E+03
	35	798-	808	801.11	400.22	3.24E+02	85.18	2.89E+03
	36	821-	837	829.47	414.40	5.75E+04	264.27	3.97E+03
	37	839-	852	847.19	423.26	3.11E+03	116.67	3.77E+03

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	38	885-	898	893.46	446.39	1.99E+02	69.15	1.66E+03
	39	898-	912	905.01	452.17	6.73E+03	109.02	1.80E+03
	40	962-	973	965.26	482.29	1.49E+02	45.75	7.67E+02
	41	1231-	1248	1240.13	619.73	5.86E+02	45.43	4.54E+02
	42	1263-	1272	1268.28	633.81	6.00E+01	22.91	2.03E+02
	43	1290-	1299	1293.94	646.63	3.17E+02	30.98	2.80E+02
	44	1299-	1315	1307.16	653.25	8.83E+01	50.58	7.87E+02
M	45	1315-	1335	1320.00	659.67	1.73E+02	20.55	3.56E+02
m	46	1315-	1335	1327.08	663.21	2.89E+03	85.47	2.55E+02
	47	1371-	1385	1379.65	689.49	2.78E+02	30.56	2.27E+02
	48	1440-	1454	1446.18	722.76	1.46E+03	46.15	2.35E+02
	49	1506-	1522	1514.46	756.90	1.37E+02	23.44	1.32E+02
	50	1532-	1549	1540.74	770.03	3.93E+02	29.35	1.42E+02
	51	4467-	4483	4473.32	2236.33	1.73E+05	417.93	3.36E+02

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Summed Spectrum

Nuclide Identification Report

Sample ID: S100-2645
Nuclide Library Used: C:\WAS\NLIB\LLNL.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (uCi/)	Activity Uncertainty
Pulser	0.993	2236.00*	100.00	7.332E+02	2.002E+02
Np-237	0.740	300.10	6.63		
		311.90*	38.60	7.512E+00	4.208E-01
Pu-239	0.966	413.70*	0.00	4.313E+06	8.568E+04
Pu-239A	0.970	129.29*	0.01	1.228E+06	3.456E+04
Am-241	0.957	662.42*	0.00	1.197E+06	3.779E+04
Am-241D	0.961	722.01*	0.00	1.324E+06	4.440E+04
Pu-241	0.968	148.57*	0.00	5.275E+06	2.076E+05

* = Energy line found in the spectrum.
Energy Tolerance : 1.500 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 4-01-08 11:22:50 AM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192

	Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
	1	32.04	1.0651E+02	1.90
	2	50.01	7.0580E+01	5.19
	3	60.14	3.0211E+03	0.34
	4	75.61	2.3354E+01	16.72
	5	99.34	1.0134E+03	0.76
	6	111.68	2.1104E+02	2.41
	7	116.24	1.6283E+02	3.96
	9	144.74	6.8073E+00	45.89
	11	172.11	5.3007E+01	6.56
	12	179.80	2.0912E+01	12.32
	13	189.97	3.0859E+01	10.03
	14	196.27	3.9693E+01	8.08
	15	204.19	1.5718E+02	2.04
	16	208.66	4.4874E+02	1.06
	17	244.02	6.7650E+00	31.22
	18	256.05	3.2833E+01	6.56
M	19	264.66	1.1116E+01	8.01
m	20	268.21	2.8934E+01	5.01
	21	298.12	1.9135E+01	9.14
M	23	321.67	2.5552E+01	5.18
m	24	324.14	3.6381E+01	4.07
M	25	333.39	2.3769E+02	1.06
m	26	336.34	8.2655E+01	1.59
M	27	342.11	2.3582E+01	3.25
m	28	345.69	2.1601E+02	1.14
	29	362.58	3.1758E+00	32.28
	30	368.93	9.0473E+00	26.22
	31	375.73	4.0363E+02	0.87
M	32	380.89	9.5780E+01	1.55
m	33	383.47	9.1298E+01	1.52
	34	393.58	2.0071E+02	0.92
	35	400.22	2.9969E+00	26.32
	37	423.26	2.8801E+01	3.76
	38	446.39	1.8437E+00	34.73
	39	452.17	6.2321E+01	1.64
	40	482.29	1.3760E+00	30.79
	41	619.73	5.4215E+00	7.76
	42	633.81	5.5591E-01	38.16
	43	646.63	2.9306E+00	9.79
	44	653.25	8.1740E-01	57.30
M	45	659.67	1.6025E+00	11.87
	47	689.49	2.5757E+00	10.99
	49	756.90	1.2707E+00	17.08
	50	770.03	3.6433E+00	7.46

M = First peak in a multiplet region
m = Other peak in a multiplet region
= Fitted singlet

Errors quoted at 1.000 sigma

Combined Segment NID

NID Results Combiner Mode: Sum Activities

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		8.13E+02	+/-	1.20E+02	3.66E-02	+/-	5.40E-03
SE-75	<	5.65E-01	+/-	3.81E-02	< 2.55E-05	+/-	1.72E-06
EU-152x	<	2.79E-01	+/-	1.90E-02	< 1.26E-05	+/-	8.55E-07
U-233	<	3.10E+04	+/-	2.50E+03	< 1.39E+00	+/-	1.12E-01
U-235	<	7.15E-01	+/-	9.04E-02	< 3.22E-05	+/-	4.07E-06
Np-237		9.04E+00	+/-	6.10E-01	4.07E-04	+/-	2.75E-05
Pu-238	<	5.17E+04	+/-	5.89E+03	< 2.33E+00	+/-	2.66E-01
U-238		6.64E+00	+/-	1.77E+00	2.99E-04	+/-	7.98E-05
Pu-239		5.39E+06	+/-	1.83E+05	2.43E+02	+/-	8.24E+00
Pu-239A		3.50E+06	+/-	1.41E+05	1.58E+02	+/-	6.33E+00
Am-241		1.40E+06	+/-	5.93E+04	6.31E+01	+/-	2.67E+00
Am-241D		1.60E+06	+/-	6.94E+04	7.20E+01	+/-	3.13E+00
Pu-241		1.10E+07	+/-	7.21E+05	4.94E+02	+/-	3.25E+01

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
Np-237	1.28E-02	+/-	8.66E-04
U-238	1.98E+01	+/-	5.28E+00
Pu-239	8.68E+01	+/-	2.95E+00
Pu-239A	5.63E+01	+/-	2.26E+00
Am-241	4.09E-01	+/-	1.73E-02
Pu-241	1.06E-01	+/-	6.97E-03

Summed Spectrum

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		7.33E+02	+/-	2.00E+02	3.30E-02	+/-	9.02E-03
SE-75	<	1.21E+00	+/-	1.35E-02	< 5.46E-05	+/-	6.08E-07
EU-152x	<	5.72E-01	+/-	1.20E-02	< 2.58E-05	+/-	5.40E-07
U-233	<	7.04E+04	+/-	1.78E+03	< 3.17E+00	+/-	8.01E-02
U-235	<	1.66E+00	+/-	4.31E-02	< 7.49E-05	+/-	1.94E-06
Np-237		7.51E+00	+/-	4.21E-01	3.38E-04	+/-	1.90E-05
Pu-238	<	1.23E+05	+/-	2.88E+03	< 5.52E+00	+/-	1.30E-01
U-238	<	1.40E+01	+/-	2.30E-01	< 6.30E-04	+/-	1.04E-05
Pu-239		4.31E+06	+/-	8.57E+04	1.94E+02	+/-	3.86E+00
Pu-239A		1.23E+06	+/-	3.46E+04	5.53E+01	+/-	1.56E+00
Am-241		1.20E+06	+/-	3.78E+04	5.39E+01	+/-	1.70E+00
Am-241D		1.32E+06	+/-	4.44E+04	5.96E+01	+/-	2.00E+00
Pu-241		5.27E+06	+/-	2.08E+05	2.38E+02	+/-	9.35E+00

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
Np-237	1.07E-02	+/-	5.97E-04
Pu-239	6.94E+01	+/-	1.38E+00
Pu-239A	1.98E+01	+/-	5.56E-01
Am-241	3.50E-01	+/-	1.10E-02
Pu-241	5.10E-02	+/-	2.01E-03

Final Non-Uniformity Results

Source Longitudinal Ratio:	0.925	+/-	6.2453
Matrix Longitudinal Ratio:	0.667	+/-	0.0324
Source Vertical Ratio:	0.865	+/-	0.4637
Matrix Vertical Ratio:	0.851	+/-	0.0188

NUDS could not find the transmission peak in one radial segment.

Radioassay Data Sheet — Tue Apr 1 01:33:41 2008
Procedure ID & Rev: WCP-55 03/07/2002 — Software Version: GWAS v2.3bGEN

Drum ID	: LL85234292	Gross Weight (kg)	: 66.0
Sequence Number	: 2647	Fill Height (%)	: 100.0
Assay Date	: 04/01/08 12:31:59	Density (g/cc)	: 0.20
		Net Weight (kg)	: 42.20
Batch Number	:	Waste Matrix Code	:
Site ID	:	TRUCON	:

	Errors at 1.00 Sigma		
TRU Alpha Activity Concentration:	4.92e-06	+/- 5.39e-07	Ci/g
Total Pu-239 Equiv Activity:	2.08e-01	+/- 2.23e-02	Ci
Total Pu-239 Fissile Gram Equiv:	1.60e+00	+/- 2.72e-01	g
Decay Heat:	6.75e-03	+/- 7.37e-04	W
Total Pu Mass:	1.47e+00	+/- 2.67e-01	g
TMU:	19.87%		
Waste Classification:	TRU		

Isotopics Data

Measured Isotope	MGA Report Weight %	MGA Report % Err (1.00 Sigma)
Pu-238	2.17e-01	2.28e+00
Pu-239	9.09e+01	2.59e-01
Pu-240	8.62e+00	2.70e+00
Pu-241	1.77e-01	2.84e+00
Pu-242	5.01e-02	1.10e+01
Am-241	7.36e-01	1.78e+00
Am-243	0.00e+00	0.00e+00
Np-237	0.00e+00	0.00e+00
U-235	2.25e+01	7.43e+00

Activity Errors

Isotope	Isotope Mass (g)	1.00 Sigma Error/Isotope Mass (g)	Alpha Activity/ Isotope (Ci)	1.00 Sigma Error/Isotope (Ci)	MDA (g)
Pu-238	3.19e-03	6.38e-04	5.46e-02	1.09e-02	4.35e-04
Pu-239	1.34e+00	2.66e-01	8.30e-02	1.65e-02	3.25e-02
Pu-240	1.27e-01	2.54e-02	2.88e-02	5.77e-03	0.00e+00
Pu-241	2.60e-03	5.22e-04	2.69e-01	5.40e-02	3.69e-04
Pu-242	7.36e-04	1.67e-04	2.89e-06	6.57e-07	0.00e+00
Am-241	1.21e-02	2.82e-03	4.13e-02	9.65e-03	3.12e-03
Am-243	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
Np-237	7.51e-04	1.75e-04	5.30e-07	1.24e-07	1.64e-04
U-235	2.53e-01	5.65e-02	5.48e-07	1.22e-07	6.04e-02
*U-238	<LLD	0.00e+00	0.00e+00	0.00e+00	1.26e+01
*U-233	<LLD	0.00e+00	0.00e+00	0.00e+00	4.14e-01
CS-137	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
U-234	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
SR-90	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00

* = Activity/Mass below detectable limit.

Operator Signature — Date

Robert J. Haslett Jr. — 4-30-08

Reviewer Signature — Date

AUTOMATED INDEPENDENT TECHNICAL REVIEW BASED ON WCP-55 03/07/2002

Software Version: GWAS v2.3bGEN
Counter Number: SGS
Data Review for Container: LL85234292
Item Description Code: \Count Type: DEBRIS
Sequence Number: 2647
Assayed on: 04/01/08 12:31:59
Report Generated: 04/01/08 13:33:25
AITR Version 1.4

Section 1 MGA Analysis Review Using MGA Isotopics

REVIEW Pu-240 Wt Pct -2 Sigma error <8.15> greater than <5.87> Review MGA Results OK
Pu-240 Wt Pct error <2.70> is within limits
Pu-238 Wt Pct error <2.28> is within limits
QFIT <1.00> is within limits
REVIEW MGAERR12: Calculations in MGAABS didn't converge: MGA results may be suspect OK

Section 2 - CONTAINER DENSITY REVIEW

Container density <0.203> g/cc is within UPPER and LOWER limits

Section 3 - SELF-ABSORPTION REVIEW

Pu-239/Pu-239a ratio <1.07e+00> is within limits

Section 4 - PULSER REVIEW

DEAD TIME percentage <0.54> is acceptable in Segment 1
Pulser value <0.99> is within range in Segment 1
DEAD TIME percentage <0.52> is acceptable in Segment 2
Pulser value <0.99> is within range in Segment 2
DEAD TIME percentage <0.52> is acceptable in Segment 3
Pulser value <1.00> is within range in Segment 3
DEAD TIME percentage <0.55> is acceptable in Segment 4
REVIEW REFERENCE PEAK RATIO < <0.99> in Segment 4 OK
Pulser value <0.98> is within range in Segment 4
DEAD TIME percentage <0.56> is acceptable in Segment 5
Pulser value <0.99> is within range in Segment 5
DEAD TIME percentage <0.62> is acceptable in Segment 6
Pulser value <0.98> is within range in Segment 6
DEAD TIME percentage <0.75> is acceptable in Segment 7
Pulser value <0.99> is within range in Segment 7
DEAD TIME percentage <0.75> is acceptable in Segment 8
Pulser value <0.98> is within range in Segment 8
DEAD TIME percentage <0.71> is acceptable in Segment 9
Pulser value <0.99> is within range in Segment 9
DEAD TIME percentage <0.85> is acceptable in Segment 10
Pulser value <0.99> is within range in Segment 10
DEAD TIME percentage <1.03> is acceptable in Segment 11
Pulser value <0.99> is within range in Segment 11
DEAD TIME percentage <1.37> is acceptable in Segment 12
Pulser value <0.99> is within range in Segment 12
DEAD TIME percentage <1.53> is acceptable in Segment 13
Pulser value <0.99> is within range in Segment 13
DEAD TIME percentage <1.28> is acceptable in Segment 14
Pulser value <0.99> is within range in Segment 14
DEAD TIME percentage <0.88> is acceptable in Segment 15
Pulser value <0.99> is within range in Segment 15
DEAD TIME percentage <0.63> is acceptable in Segment 16
Pulser value <0.98> is within range in Segment 16

Section 5 - TRANSMISSION REVIEW

Transmission results are acceptable in Segment 1
Transmission results are acceptable in Segment 2
Transmission results are acceptable in Segment 3
Transmission results are acceptable in Segment 4
Transmission results are acceptable in Segment 5

Transmission results are acceptable in Segment 6
Transmission results are acceptable in Segment 7
Transmission results are acceptable in Segment 8
Transmission results are acceptable in Segment 9
Transmission results are acceptable in Segment 10
Transmission results are acceptable in Segment 11
Transmission results are acceptable in Segment 12
Transmission results are acceptable in Segment 13
Transmission results are acceptable in Segment 14
Transmission results are acceptable in Segment 15
Transmission results are acceptable in Segment 16

Section 6 - REDUCED CHI SQUARED FIT REVIEW

All energy peaks within <3.00e+00> RCHISQ limit

Section 7 - PGE MASS REVIEW

PGE Mass <1.87> is within limits

Section 8 - PERCENT FULL REVIEW

Percent Full <100.0> is above lower limit <30.0>

Section 9 - IDC COUNT TYPE REVIEW

REVIEW IDC is not available

Section 10 - AM-241 & NP-237 INTERFERENCE REVIEW

REVIEW Am-241 ratio <110.78> is below lower limit <200.00> OK
Np-237 ratio <1780.46> is above lower limit <125.00>

Section 11 - PU-239 CALIBRATION RANGE REVIEW

Pu-239 <1.34> is within limits

Section 12 - CS-137 INTERFERENCE REVIEW

Cs-137 Z Value <1.33> is less than limit <1.96>

Independent Reviewer: Robert J Hamilton Date: 4-30-08

INDEPENDENT TECHNICAL REVIEW COMMENT SHEET

Counter Number: SGS
Data Review for Container: LL85234292
Item Description Code:
Sequence Number: 2647
Assayed on: 04/01/08 12:31:59
AITR Version 1.4

Comments	Disposition
SECTION 1 - MGA	
Pu-240 Wt Pct -2 Sigma error is greater than upper limit.	OK
MGAERR12	OK
SECTION 4 - PULSER	
Reference Peak Ratio is less than lower limit in Segment 4	OK
SECTION 9 - IDC COUNT TYPE	
IDC is not available.	N/A
SECTION 10 - AM-241 & NP-237 INTERFERENCE TEST	
Possible Am-241 interference with 129 KeV peak.	OK. Checked.

Technical Reviewer: Robert J. Hazlett Date: 4-30-08

****
***** M G A R E P O R T *****
****

Report generated on: 4-01-08 1:28:33 PM

MGA version: MGA V9.5 CI

Spectrum ID: 11202647.CNF Sens : 30.0% LT: 55.6 Mins DT: 0.41
Measurement date: 4-01-08 Declared date: 4-01-08

Sample ID: LL85234292 Detector: Total counts: 4.336E+05

Pu g/cm2 = 0.0031 Cd g/cm2 = 1.6284 FWHM at 122 keV = 590 eV
QFIT = 1.00 FWHM at 208 keV = 752 eV
NQFIT = 1.00

Isotope	Relative to Pu-239	%* Err	% Err	Relative to Pu-241	%* Err	Isotope analysis at Meas. date % weight	%Err	Decl. date % weight	%Err
Pu-238	0.002385	2.4	1.9	1.2258	2.8	0.21685	2.28	0.21685	2.28
Pu-239	1.000000	0.0	1.6	514.0391	2.9	90.94066	0.26	90.94066	0.26
Pu-240	0.094738	3.0	2.5	48.6990	3.5	8.61553	2.70	8.61553	2.70
Pu-241	0.001945	2.9	2.5	1.0000	0.0	0.17691	2.84	0.17691	2.84
Pu-242	(New alg.)			0.2829	(11)	0.05005	(11)	0.05005	(11)
Am-241	0.008098	1.9	1.1	4.1629	2.7	0.73648	1.78	0.73648	1.78
U-235	0.247440	7.3	7.5			22.50240	7.43	22.50240	7.43

Pu-240 effective (meas. date) = 9.246 +/- 2.91%
Am-241 separated about 33.466 +/- 0.442 years ago
Am/Pu-241 weight ratio = 4.16294 +/- 2.73%

Messages :

Lead x-rays detected.
Calculations in MGAABS didn't converge : results may be suspect.
Pu-241/Pu-239 efficiency changed in MGACAL by 1%.
17 MGA parameter(s) defaulted, starting from parameter 8.

Notes : * = Error in ratio
1.000 sigma errors

Gamma Waste Assay

Sample Information

File Name: C:\WAS\DATA\2700\11102647.S11
Sample ID: LL85234292 Count Sequence Number: 2647
Assay Start: 4-01-08 12:32:01 PM
Description 1:
Description 2:
Location:
Comment:
Waste Type:
Weight: Gross: 66000.0 g Net: 42200.0 g
Density: 0.203 g /ml

Container Type: 55 Gal Galv 23.8
Container: Volume: 208000. ml Full: 100.0 %

System Configuration

Counter ID Number: SGS
Arrangement Description: SGS
Segments: Number: 16 Offset: 0
Scanning Platform: Start: 934 mm Delta: -51 mm
Count Type: 55 Gal Galv 23.8
Collimator/Geometry Setting: 0
Transmission Mode: Two pass
Transmission Source: 0

Errors quoted at 1.000 sigma
Reference Source Date: Reference Source Rate: 1.00E+02 cps
Geometric Correction Factor(SWCONTGCF): 0.760
Date of efficiency calibration approval: 8-27-2003 2:05:34 PM
Mu Factors response file: Lucite
Transmission Calib. Time: 12-10-2007 3:51:07 PM 28849

Reviewed by: Robert J Haslett Jr Date: 4-30-08

Segment Results

Segment: 1 Detector: DET01 (# 1) Position: 1

Elapsed Live Time: 114.38 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.112 +/- 0.0063
SE-75	264.65	0.000 +/- 0.0000	0.204 +/- 0.0048
SE-75	279.53	0.000 +/- 0.0000	0.213 +/- 0.0057
SE-75	400.65	0.000 +/- 0.0000	0.254 +/- 0.0080

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.23	2.13E-01 +/- 9.62E-02	2.40E+00	6.40E-06 +/- 1.18E-05
2	662.42	2.89E-02 +/- 2.45E-02	1.46E+00	1.27E-04 +/- 8.85E-06
3	778.90	2.69E-02 +/- 2.14E-02	1.42E+00	1.11E-04 +/- 6.56E-06
4	1001.03	8.62E-03 +/- 8.62E-03	1.36E+00	9.18E-05 +/- 4.92E-06
5	1085.91	1.72E-02 +/- 1.22E-02	1.34E+00	8.64E-05 +/- 4.52E-06
6	1112.12	1.72E-02 +/- 1.22E-02	1.34E+00	8.48E-05 +/- 4.39E-06
7	2236.00	1.00E+02 +/- 1.49E+00	1.24E+00	3.40E-05 +/- 2.15E-05

Segment: 2 Detector: DET01 (# 1) Position: 2

Elapsed Live Time: 114.40 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.182 +/- 0.0080
SE-75	264.65	0.000 +/- 0.0000	0.264 +/- 0.0044
SE-75	279.53	0.000 +/- 0.0000	0.274 +/- 0.0056
SE-75	400.65	0.000 +/- 0.0000	0.324 +/- 0.0081

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	49.29	1.43E+00 +/- 1.64E-01	2.17E+00	8.01E-05 +/- 2.11E-04
2	867.39	3.53E-02 +/- 2.12E-02	1.32E+00	1.44E-04 +/- 6.91E-06
3	1001.03	8.61E-03 +/- 8.61E-03	1.29E+00	1.28E-04 +/- 5.83E-06
4	1112.12	1.72E-02 +/- 1.22E-02	1.27E+00	1.18E-04 +/- 5.17E-06
5	1408.01	8.61E-03 +/- 8.61E-03	1.24E+00	1.02E-04 +/- 6.88E-06
6	2236.00	1.00E+02 +/- 1.49E+00	1.19E+00	9.73E-05 +/- 5.41E-05

Segment: 3 Detector: DET01 (# 1) Position: 3

Elapsed Live Time: 114.40 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.178 +/- 0.0091
SE-75	264.65	0.000 +/- 0.0000	0.271 +/- 0.0061
SE-75	279.53	0.000 +/- 0.0000	0.279 +/- 0.0071
SE-75	400.65	0.000 +/- 0.0000	0.324 +/- 0.0095

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	49.35	1.07E+00 +/- 1.79E-01	2.19E+00	3.66E-05 +/- 1.82E-05
2	60.23	2.84E-01 +/- 9.17E-02	2.05E+00	8.10E-05 +/- 2.79E-05
3	129.29	2.24E-01 +/- 1.33E-01	1.81E+00	4.18E-04 +/- 2.23E-05
4	311.90	9.10E-02 +/- 5.44E-02	1.54E+00	4.04E-04 +/- 1.79E-05
5	400.66	6.82E-02 +/- 6.28E-02	1.49E+00	3.26E-04 +/- 1.32E-05
6	443.98	9.99E-02 +/- 4.00E-02	1.46E+00	2.95E-04 +/- 1.21E-05
7	511.68	9.82E-02 +/- 4.43E-02	1.43E+00	2.55E-04 +/- 1.13E-05
8	964.13	6.11E-02 +/- 2.31E-02	1.30E+00	1.39E-04 +/- 5.75E-06
9	1001.03	3.00E-02 +/- 2.22E-02	1.29E+00	1.35E-04 +/- 5.37E-06
10	1085.91	2.62E-02 +/- 1.51E-02	1.28E+00	1.28E-04 +/- 4.75E-06
11	2236.00	1.00E+02 +/- 1.50E+00	1.19E+00	1.32E-04 +/- 3.24E-05

Segment: 4 Detector: DET01 (# 1) Position: 4

Elapsed Live Time: 114.37 sec Elapsed Real Time: 115.00 sec

T R A N S M I S S I O N R E S U L T S

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.187 +/- 0.0081
SE-75	264.65	0.000 +/- 0.0000	0.278 +/- 0.0063
SE-75	279.53	0.000 +/- 0.0000	0.292 +/- 0.0074
SE-75	400.65	0.000 +/- 0.0000	0.344 +/- 0.0100

P E A K A N A L Y S I S R E S U L T S

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	49.23	1.21E+00 +/- 1.83E-01	2.15E+00	9.30E-06 +/- 2.43E-05
2	1001.03	2.58E-02 +/- 1.49E-02	1.27E+00	1.37E-04 +/- 6.33E-06
3	1112.12	1.72E-02 +/- 1.22E-02	1.26E+00	1.26E-04 +/- 5.66E-06
4	2236.00	1.00E+02 +/- 1.49E+00	1.18E+00	7.00E-05 +/- 3.84E-05

Segment: 5 Detector: DET01 (# 1) Position: 5

Elapsed Live Time: 114.36 sec Elapsed Real Time: 115.00 sec

T R A N S M I S S I O N R E S U L T S

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.184 +/- 0.0085
SE-75	264.65	0.000 +/- 0.0000	0.275 +/- 0.0062
SE-75	279.53	0.000 +/- 0.0000	0.285 +/- 0.0072
SE-75	400.65	0.000 +/- 0.0000	0.335 +/- 0.0098

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.13	1.80E+00 +/- 1.92E-01	2.03E+00	4.78E-05 +/- 8.22E-05
2	152.68	1.76E-01 +/- 9.46E-02	1.74E+00	4.54E-04 +/- 5.17E-05
3	244.70	1.02E-01 +/- 5.29E-02	1.59E+00	4.25E-04 +/- 3.51E-05
4	264.66	8.85E-02 +/- 5.88E-02	1.57E+00	4.06E-04 +/- 2.73E-05
5	413.70	4.51E-02 +/- 3.30E-02	1.47E+00	2.86E-04 +/- 1.90E-05
6	1408.01	1.74E-02 +/- 1.23E-02	1.23E+00	1.00E-04 +/- 6.78E-06
7	2236.00	1.00E+02 +/- 1.50E+00	1.19E+00	5.76E-05 +/- 3.29E-05

Segment: 6 Detector: DET01 (# 1) Position: 6

Elapsed Live Time: 114.29 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.166 +/- 0.0082
SE-75	264.65	0.000 +/- 0.0000	0.243 +/- 0.0056
SE-75	279.53	0.000 +/- 0.0000	0.248 +/- 0.0065
SE-75	400.65	0.000 +/- 0.0000	0.299 +/- 0.0089

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.18	1.20E+01 +/- 4.40E-01	2.11E+00	6.09E-05 +/- 9.94E-05
2	129.29	3.90E-01 +/- 1.54E-01	1.84E+00	4.31E-04 +/- 2.73E-05
3	185.71	2.58E-01 +/- 1.14E-01	1.74E+00	4.84E-04 +/- 5.81E-05
4	375.92	1.43E-01 +/- 6.89E-02	1.54E+00	3.33E-04 +/- 1.84E-05
5	400.66	9.39E-02 +/- 4.11E-02	1.53E+00	3.17E-04 +/- 1.92E-05
6	413.70	1.80E-01 +/- 5.60E-02	1.52E+00	3.09E-04 +/- 1.95E-05
7	512.17	2.67E-01 +/- 5.68E-02	1.46E+00	2.60E-04 +/- 1.85E-05
8	778.90	4.68E-02 +/- 2.70E-02	1.36E+00	1.83E-04 +/- 8.99E-06
9	964.13	3.10E-02 +/- 2.34E-02	1.32E+00	1.51E-04 +/- 6.52E-06
10	1085.91	3.45E-02 +/- 1.72E-02	1.30E+00	1.34E-04 +/- 5.68E-06
11	2236.00	1.00E+02 +/- 1.49E+00	1.21E+00	4.34E-05 +/- 2.42E-05

Segment: 7 Detector: DET01 (# 1) Position: 7

Elapsed Live Time: 114.14 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.153 +/- 0.0069
SE-75	264.65	0.000 +/- 0.0000	0.206 +/- 0.0036
SE-75	279.53	0.000 +/- 0.0000	0.207 +/- 0.0046
SE-75	400.65	0.000 +/- 0.0000	0.251 +/- 0.0069

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	60.20	3.48E+01 +/- 7.93E-01	2.17E+00	1.61E-05 +/- 2.39E-05
	2	99.62	1.30E+00 +/- 3.79E-01	1.96E+00	2.45E-04 +/- 5.48E-05
	3	103.74	9.33E-01 +/- 2.41E-01	1.95E+00	2.77E-04 +/- 4.84E-05
M	4	125.90	7.28E-01 +/- 1.19E-01	1.90E+00	4.24E-04 +/- 2.46E-05
m	5	129.99	2.36E+00 +/- 2.51E-01	1.89E+00	4.45E-04 +/- 2.77E-05
	6	144.62	3.15E-01 +/- 1.93E-01	1.86E+00	5.04E-04 +/- 4.46E-05
	7	152.68	3.91E-01 +/- 1.46E-01	1.85E+00	5.26E-04 +/- 5.21E-05
	8	185.71	1.47E+00 +/- 1.63E-01	1.81E+00	5.59E-04 +/- 6.06E-05
	9	208.86	3.81E-01 +/- 1.37E-01	1.78E+00	5.47E-04 +/- 5.31E-05
	10	311.90	2.63E-01 +/- 8.21E-02	1.69E+00	4.17E-04 +/- 1.86E-05
M	11	333.36	2.26E-01 +/- 7.28E-02	1.67E+00	3.91E-04 +/- 1.76E-05
m	12	336.61	1.71E-01 +/- 6.30E-02	1.66E+00	3.88E-04 +/- 1.76E-05
	13	345.62	1.23E-01 +/- 6.02E-02	1.66E+00	3.78E-04 +/- 1.76E-05
	14	375.88	3.52E-01 +/- 1.08E-01	1.63E+00	3.48E-04 +/- 1.82E-05
	15	393.59	1.45E-01 +/- 8.56E-02	1.62E+00	3.33E-04 +/- 1.86E-05
	16	413.70	5.25E-01 +/- 8.57E-02	1.61E+00	3.17E-04 +/- 1.88E-05
	17	452.28	1.29E-01 +/- 4.72E-02	1.58E+00	2.90E-04 +/- 1.86E-05
	18	511.73	5.56E-01 +/- 6.98E-02	1.54E+00	2.57E-04 +/- 1.71E-05
	19	662.42	5.50E-02 +/- 3.23E-02	1.47E+00	2.03E-04 +/- 1.17E-05
	20	778.90	1.74E-02 +/- 1.23E-02	1.42E+00	1.77E-04 +/- 8.73E-06
	21	1112.12	1.74E-02 +/- 1.23E-02	1.34E+00	1.32E-04 +/- 5.60E-06
	22	1408.01	2.61E-02 +/- 1.50E-02	1.30E+00	1.05E-04 +/- 7.16E-06
	23	2236.00	1.00E+02 +/- 1.50E+00	1.24E+00	5.07E-05 +/- 2.69E-05

Segment: 8 Detector: DET01 (# 1) Position: 8

Elapsed Live Time: 114.14 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.088 +/- 0.0059
SE-75	264.65	0.000 +/- 0.0000	0.138 +/- 0.0034
SE-75	279.53	0.000 +/- 0.0000	0.144 +/- 0.0043
SE-75	400.65	0.000 +/- 0.0000	0.181 +/- 0.0063

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.34	2.08E-01 +/- 8.42E-02	3.69E+00	8.05E-06 +/- 7.73E-06
	2	49.56	1.49E+00 +/- 3.68E-01	2.80E+00	5.74E-05 +/- 2.87E-05
	3	60.19	3.02E+01 +/- 7.38E-01	2.60E+00	1.10E-04 +/- 3.84E-05
	4	99.64	1.91E+00 +/- 4.05E-01	2.31E+00	3.26E-04 +/- 3.29E-05
	5	103.73	6.54E-01 +/- 2.60E-01	2.29E+00	3.44E-04 +/- 3.09E-05
	6	111.75	7.32E-01 +/- 2.23E-01	2.26E+00	3.75E-04 +/- 2.72E-05
M	7	125.96	6.18E-01 +/- 1.09E-01	2.22E+00	4.19E-04 +/- 2.31E-05
m	8	130.02	2.77E+00 +/- 2.77E-01	2.21E+00	4.29E-04 +/- 2.26E-05
	9	152.68	3.86E-01 +/- 1.48E-01	2.15E+00	4.67E-04 +/- 2.32E-05
	10	185.71	1.00E+00 +/- 2.07E-01	2.08E+00	4.81E-04 +/- 2.59E-05
	11	208.70	7.21E-01 +/- 1.54E-01	2.03E+00	4.74E-04 +/- 2.60E-05
	12	311.90	3.59E-01 +/- 1.11E-01	1.87E+00	3.88E-04 +/- 1.78E-05
	13	375.79	4.35E-01 +/- 1.12E-01	1.81E+00	3.34E-04 +/- 1.38E-05
	14	383.53	3.02E-01 +/- 7.36E-02	1.80E+00	3.28E-04 +/- 1.35E-05
	15	393.80	2.23E-01 +/- 5.72E-02	1.79E+00	3.21E-04 +/- 1.31E-05
	16	413.70	5.09E-01 +/- 7.63E-02	1.77E+00	3.06E-04 +/- 1.25E-05
	17	512.10	3.86E-01 +/- 7.45E-02	1.69E+00	2.49E-04 +/- 1.09E-05
	18	662.42	6.32E-02 +/- 3.00E-02	1.59E+00	1.93E-04 +/- 9.41E-06
	19	867.39	2.01E-02 +/- 1.79E-02	1.50E+00	1.51E-04 +/- 6.88E-06
	20	964.13	4.31E-02 +/- 1.93E-02	1.47E+00	1.39E-04 +/- 5.73E-06
	21	1112.12	6.03E-02 +/- 2.28E-02	1.43E+00	1.26E-04 +/- 4.65E-06
	22	2236.00	1.00E+02 +/- 1.49E+00	1.30E+00	1.19E-04 +/- 2.92E-05

Segment: 9 Detector: DET01 (# 1) Position: 9

Elapsed Live Time: 114.18 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.299 +/- 0.0115
SE-75	264.65	0.000 +/- 0.0000	0.402 +/- 0.0088
SE-75	279.53	0.000 +/- 0.0000	0.415 +/- 0.0100
SE-75	400.65	0.000 +/- 0.0000	0.461 +/- 0.0126

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	49.59	1.13E+00 +/- 3.75E-01	1.77E+00	2.80E-06 +/- 7.06E-06
2	60.18	2.21E+01 +/- 6.21E-01	1.69E+00	1.65E-05 +/- 2.58E-05
3	99.92	2.92E+00 +/- 4.14E-01	1.57E+00	2.40E-04 +/- 5.49E-05
4	129.29	1.98E+00 +/- 2.11E-01	1.53E+00	4.21E-04 +/- 2.66E-05
5	152.68	6.05E-01 +/- 1.55E-01	1.50E+00	4.97E-04 +/- 5.14E-05
6	185.71	5.72E-01 +/- 1.95E-01	1.46E+00	5.24E-04 +/- 5.91E-05
7	208.78	3.20E-01 +/- 1.47E-01	1.44E+00	5.11E-04 +/- 5.15E-05
8	311.90	1.17E-01 +/- 7.83E-02	1.36E+00	3.83E-04 +/- 1.78E-05
9	333.51	2.68E-01 +/- 8.00E-02	1.35E+00	3.59E-04 +/- 1.71E-05
10	345.62	1.39E-01 +/- 6.38E-02	1.34E+00	3.46E-04 +/- 1.72E-05
11	375.95	4.17E-01 +/- 9.61E-02	1.33E+00	3.18E-04 +/- 1.78E-05
12	393.33	2.16E-01 +/- 7.25E-02	1.33E+00	3.04E-04 +/- 1.81E-05
13	413.70	4.83E-01 +/- 8.14E-02	1.32E+00	2.88E-04 +/- 1.83E-05
14	511.92	2.97E-01 +/- 6.79E-02	1.29E+00	2.33E-04 +/- 1.66E-05
15	778.90	2.60E-02 +/- 1.50E-02	1.23E+00	1.62E-04 +/- 8.21E-06
16	1001.03	1.74E-02 +/- 1.23E-02	1.19E+00	1.35E-04 +/- 6.06E-06
17	2236.00	1.00E+02 +/- 1.50E+00	1.13E+00	6.12E-05 +/- 3.31E-05

Segment: 10 Detector: DET01 (# 1) Position: 10

Elapsed Live Time: 114.02 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.182 +/- 0.0091
SE-75	264.65	0.000 +/- 0.0000	0.269 +/- 0.0061
SE-75	279.53	0.000 +/- 0.0000	0.275 +/- 0.0071
SE-75	400.65	0.000 +/- 0.0000	0.319 +/- 0.0094

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	49.86	3.58E+00 +/- 5.28E-01	2.16E+00	8.32E-05 +/- 4.20E-05
	2	60.19	4.99E+01 +/- 9.98E-01	2.04E+00	1.37E-04 +/- 4.88E-05
	3	99.85	4.56E+00 +/- 4.89E-01	1.85E+00	3.32E-04 +/- 3.37E-05
	4	115.44	9.62E-01 +/- 2.79E-01	1.82E+00	3.82E-04 +/- 2.57E-05
M	5	125.88	7.51E-01 +/- 1.22E-01	1.80E+00	4.08E-04 +/- 2.27E-05
m	6	130.06	4.80E+00 +/- 3.58E-01	1.79E+00	4.16E-04 +/- 2.21E-05
	7	152.68	5.66E-01 +/- 1.93E-01	1.75E+00	4.47E-04 +/- 2.25E-05
M	8	162.33	1.68E-01 +/- 5.39E-02	1.73E+00	4.54E-04 +/- 2.34E-05
m	9	165.38	1.94E-01 +/- 6.39E-02	1.73E+00	4.56E-04 +/- 2.37E-05
	10	208.68	8.79E-01 +/- 2.21E-01	1.66E+00	4.56E-04 +/- 2.51E-05
	11	311.90	2.55E-01 +/- 9.80E-02	1.55E+00	3.87E-04 +/- 1.76E-05
	12	333.71	3.45E-01 +/- 1.02E-01	1.53E+00	3.70E-04 +/- 1.61E-05
	13	345.58	4.18E-01 +/- 9.10E-02	1.53E+00	3.62E-04 +/- 1.54E-05
	14	375.88	9.00E-01 +/- 1.04E-01	1.51E+00	3.40E-04 +/- 1.40E-05
M	15	380.94	1.44E-01 +/- 5.73E-02	1.51E+00	3.37E-04 +/- 1.38E-05
m	16	383.13	1.30E-01 +/- 4.96E-02	1.51E+00	3.35E-04 +/- 1.37E-05
	17	393.65	3.37E-01 +/- 8.07E-02	1.50E+00	3.28E-04 +/- 1.34E-05
	18	413.70	1.00E+00 +/- 1.05E-01	1.49E+00	3.15E-04 +/- 1.29E-05
	19	452.18	1.28E-01 +/- 4.97E-02	1.47E+00	2.92E-04 +/- 1.22E-05
	20	662.42	1.12E-01 +/- 3.84E-02	1.38E+00	2.06E-04 +/- 1.03E-05
	21	722.01	3.55E-02 +/- 2.15E-02	1.36E+00	1.89E-04 +/- 9.55E-06
	22	867.39	2.70E-02 +/- 1.93E-02	1.32E+00	1.60E-04 +/- 7.45E-06
	23	1112.12	8.65E-03 +/- 8.65E-03	1.28E+00	1.29E-04 +/- 4.78E-06
	24	2236.00	1.00E+02 +/- 1.50E+00	1.20E+00	9.04E-05 +/- 2.29E-05

Segment: 11 Detector: DET01 (# 1) Position: 11

Elapsed Live Time: 113.81 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.245 +/- 0.0107
SE-75	264.65	0.000 +/- 0.0000	0.330 +/- 0.0074
SE-75	279.53	0.000 +/- 0.0000	0.336 +/- 0.0084
SE-75	400.65	0.000 +/- 0.0000	0.373 +/- 0.0107

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	50.00	2.19E+00 +/- 5.30E-01	1.92E+00	6.00E-04 +/- 1.60E-03
	2	60.19	9.30E+01 +/- 1.54E+00	1.83E+00	5.03E-04 +/- 8.46E-04
	3	99.65	2.24E+00 +/- 6.38E-01	1.68E+00	4.09E-04 +/- 1.01E-04
	4	103.87	3.37E+00 +/- 4.02E-01	1.68E+00	4.07E-04 +/- 7.75E-05
	5	111.68	7.40E-01 +/- 2.39E-01	1.66E+00	4.03E-04 +/- 4.47E-05
M	6	126.05	1.44E+00 +/- 1.67E-01	1.64E+00	4.00E-04 +/- 2.38E-05
m	7	130.02	6.41E+00 +/- 4.04E-01	1.64E+00	3.99E-04 +/- 2.64E-05
	8	152.68	5.87E-01 +/- 1.99E-01	1.60E+00	3.97E-04 +/- 4.46E-05
	9	196.17	1.95E-01 +/- 1.29E-01	1.55E+00	3.91E-04 +/- 4.68E-05
	10	204.23	5.67E-01 +/- 1.72E-01	1.54E+00	3.89E-04 +/- 4.47E-05
	11	208.69	1.46E+00 +/- 2.59E-01	1.54E+00	3.88E-04 +/- 4.34E-05
	12	255.97	1.82E-01 +/- 8.16E-02	1.49E+00	3.74E-04 +/- 2.78E-05
M	13	333.46	5.41E-01 +/- 1.14E-01	1.45E+00	3.43E-04 +/- 1.63E-05
m	14	336.68	3.14E-01 +/- 7.92E-02	1.45E+00	3.42E-04 +/- 1.63E-05
	15	345.82	6.38E-01 +/- 1.18E-01	1.44E+00	3.38E-04 +/- 1.66E-05
	16	375.90	1.58E+00 +/- 1.32E-01	1.43E+00	3.25E-04 +/- 1.79E-05
	17	393.69	5.43E-01 +/- 9.03E-02	1.42E+00	3.17E-04 +/- 1.87E-05
	18	413.70	1.36E+00 +/- 1.28E-01	1.41E+00	3.08E-04 +/- 1.94E-05
	19	452.33	9.80E-02 +/- 4.85E-02	1.40E+00	2.91E-04 +/- 2.00E-05
	20	662.42	1.02E-01 +/- 4.41E-02	1.32E+00	2.15E-04 +/- 1.30E-05
	21	1408.01	8.72E-03 +/- 8.72E-03	1.21E+00	9.35E-05 +/- 6.52E-06
	22	2236.00	1.00E+02 +/- 1.50E+00	1.17E+00	5.79E-05 +/- 3.30E-05

Segment: 12 Detector: DET01 (# 1) Position: 12

Elapsed Live Time: 113.43 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.246 +/- 0.0109
SE-75	264.65	0.000 +/- 0.0000	0.345 +/- 0.0077
SE-75	279.53	0.000 +/- 0.0000	0.352 +/- 0.0088
SE-75	400.65	0.000 +/- 0.0000	0.410 +/- 0.0116

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.16	6.58E-01 +/- 1.64E-01	2.38E+00	2.56E-09 +/- 1.56E-08
	2	50.20	9.55E+00 +/- 9.51E-01	1.92E+00	2.16E-06 +/- 5.43E-06
	3	60.19	1.88E+02 +/- 2.68E+00	1.82E+00	1.30E-05 +/- 2.08E-05
	4	99.49	9.37E+00 +/- 5.97E-01	1.68E+00	2.34E-04 +/- 5.59E-05
M	5	111.74	2.93E+00 +/- 2.95E-01	1.66E+00	3.26E-04 +/- 3.51E-05
m	6	115.27	2.34E+00 +/- 2.53E-01	1.65E+00	3.50E-04 +/- 2.95E-05
M	7	126.06	2.18E+00 +/- 2.00E-01	1.64E+00	4.17E-04 +/- 2.46E-05
m	8	130.02	7.95E+00 +/- 4.41E-01	1.63E+00	4.38E-04 +/- 2.82E-05
	9	148.57	7.50E-01 +/- 2.25E-01	1.60E+00	5.08E-04 +/- 5.12E-05
	10	204.36	1.00E+00 +/- 1.78E-01	1.53E+00	5.35E-04 +/- 5.72E-05
	11	208.70	2.38E+00 +/- 3.01E-01	1.52E+00	5.31E-04 +/- 5.52E-05
	12	264.66	1.72E-01 +/- 1.13E-01	1.46E+00	4.54E-04 +/- 2.86E-05
	13	279.54	1.58E-01 +/- 1.05E-01	1.45E+00	4.32E-04 +/- 2.38E-05
	14	311.90	1.70E-01 +/- 9.58E-02	1.43E+00	3.88E-04 +/- 1.81E-05
M	15	333.47	1.07E+00 +/- 1.50E-01	1.41E+00	3.62E-04 +/- 1.72E-05
m	16	336.47	4.12E-01 +/- 8.40E-02	1.41E+00	3.59E-04 +/- 1.72E-05
	17	345.75	6.00E-01 +/- 1.07E-01	1.41E+00	3.49E-04 +/- 1.72E-05
	18	375.82	1.33E+00 +/- 1.77E-01	1.39E+00	3.19E-04 +/- 1.78E-05
M	19	381.06	2.04E-01 +/- 6.58E-02	1.39E+00	3.14E-04 +/- 1.80E-05
m	20	383.81	3.36E-01 +/- 8.66E-02	1.39E+00	3.12E-04 +/- 1.80E-05
	21	393.55	7.32E-01 +/- 1.03E-01	1.38E+00	3.03E-04 +/- 1.82E-05
	22	413.70	1.58E+00 +/- 1.29E-01	1.37E+00	2.87E-04 +/- 1.84E-05
	23	452.10	2.50E-01 +/- 5.21E-02	1.36E+00	2.62E-04 +/- 1.82E-05
	24	662.42	1.83E-01 +/- 5.24E-02	1.29E+00	1.82E-04 +/- 1.13E-05
	25	722.01	4.17E-02 +/- 2.42E-02	1.27E+00	1.70E-04 +/- 9.57E-06
	26	1001.03	3.48E-02 +/- 1.74E-02	1.23E+00	1.35E-04 +/- 6.07E-06
	27	1085.91	8.71E-03 +/- 3.62E-02	1.21E+00	1.28E-04 +/- 5.60E-06
	28	2236.00	1.00E+02 +/- 1.50E+00	1.15E+00	6.48E-05 +/- 3.54E-05

Segment: 13 Detector: DET01 (# 1) Position: 13

Elapsed Live Time: 113.24 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.244 +/- 0.0099
SE-75	264.65	0.000 +/- 0.0000	0.332 +/- 0.0074
SE-75	279.53	0.000 +/- 0.0000	0.339 +/- 0.0084
SE-75	400.65	0.000 +/- 0.0000	0.382 +/- 0.0109

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.20	8.14E-01 +/- 1.89E-01	2.38E+00	1.88E-08 +/- 1.22E-07
	2	50.47	1.08E+01 +/- 9.72E-01	1.92E+00	5.42E-06 +/- 1.42E-05
	3	60.19	2.41E+02 +/- 3.32E+00	1.83E+00	2.30E-05 +/- 3.88E-05
	4	99.48	1.03E+01 +/- 6.33E-01	1.69E+00	2.51E-04 +/- 6.28E-05
	5	115.21	1.21E+00 +/- 4.09E-01	1.66E+00	3.49E-04 +/- 3.01E-05
M	6	125.96	2.72E+00 +/- 2.21E-01	1.64E+00	4.03E-04 +/- 2.40E-05
m	7	130.03	8.34E+00 +/- 4.54E-01	1.64E+00	4.19E-04 +/- 2.78E-05
	8	148.57	8.43E-01 +/- 2.31E-01	1.61E+00	4.73E-04 +/- 5.02E-05
	9	204.21	1.13E+00 +/- 1.87E-01	1.54E+00	4.91E-04 +/- 5.54E-05
	10	208.70	5.09E+00 +/- 2.61E-01	1.53E+00	4.88E-04 +/- 5.34E-05
	11	311.90	2.01E-01 +/- 9.53E-02	1.45E+00	3.74E-04 +/- 1.79E-05
M	12	333.50	9.64E-01 +/- 1.43E-01	1.44E+00	3.53E-04 +/- 1.73E-05
m	13	336.50	4.57E-01 +/- 8.68E-02	1.44E+00	3.50E-04 +/- 1.73E-05
	14	345.81	6.19E-01 +/- 1.14E-01	1.43E+00	3.41E-04 +/- 1.75E-05
	15	375.80	1.24E+00 +/- 1.85E-01	1.42E+00	3.16E-04 +/- 1.85E-05
M	16	380.89	2.51E-01 +/- 4.33E-02	1.42E+00	3.12E-04 +/- 1.87E-05
m	17	383.43	1.28E-01 +/- 3.03E-02	1.42E+00	3.10E-04 +/- 1.88E-05
	18	393.57	7.60E-01 +/- 9.75E-02	1.41E+00	3.03E-04 +/- 1.90E-05
	19	400.66	1.07E-01 +/- 5.52E-02	1.41E+00	2.98E-04 +/- 1.92E-05
	20	413.70	1.69E+00 +/- 1.34E-01	1.40E+00	2.89E-04 +/- 1.94E-05
	21	423.31	1.27E-01 +/- 5.78E-02	1.40E+00	2.83E-04 +/- 1.95E-05
	22	452.30	2.25E-01 +/- 5.91E-02	1.39E+00	2.67E-04 +/- 1.94E-05
	23	662.42	1.48E-01 +/- 4.85E-02	1.31E+00	1.92E-04 +/- 1.21E-05
	24	722.01	1.31E-01 +/- 3.39E-02	1.30E+00	1.80E-04 +/- 1.01E-05
	25	1408.01	3.49E-02 +/- 1.75E-02	1.20E+00	1.05E-04 +/- 7.00E-06
	26	2236.00	1.00E+02 +/- 1.50E+00	1.16E+00	5.36E-05 +/- 3.03E-05

Segment: 14 Detector: DET01 (# 1) Position: 14

Elapsed Live Time: 113.53 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.329 +/- 0.0127
SE-75	264.65	0.000 +/- 0.0000	0.405 +/- 0.0090
SE-75	279.53	0.000 +/- 0.0000	0.409 +/- 0.0100
SE-75	400.65	0.000 +/- 0.0000	0.459 +/- 0.0126

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.83	3.47E-01 +/- 1.13E-01	2.05E+00	3.32E-06 +/- 2.02E-05
	2	50.62	1.06E+01 +/- 9.73E-01	1.69E+00	4.87E-05 +/- 1.17E-04
	3	60.19	1.80E+02 +/- 2.58E+00	1.63E+00	9.60E-05 +/- 1.50E-04
	4	99.49	7.50E+00 +/- 5.29E-01	1.52E+00	3.19E-04 +/- 7.50E-05
	5	115.37	1.59E+00 +/- 3.28E-01	1.50E+00	3.82E-04 +/- 3.15E-05
M	6	125.96	1.74E+00 +/- 1.79E-01	1.49E+00	4.12E-04 +/- 2.40E-05
m	7	130.02	6.26E+00 +/- 3.96E-01	1.49E+00	4.22E-04 +/- 2.68E-05
	8	144.81	2.70E-01 +/- 1.34E-01	1.47E+00	4.47E-04 +/- 4.16E-05
	9	148.57	8.01E-01 +/- 2.03E-01	1.47E+00	4.51E-04 +/- 4.47E-05
	10	165.54	2.28E-01 +/- 1.48E-01	1.45E+00	4.63E-04 +/- 5.29E-05
	11	196.62	5.41E-01 +/- 1.50E-01	1.43E+00	4.60E-04 +/- 5.09E-05
	12	204.20	4.20E-01 +/- 1.76E-01	1.42E+00	4.57E-04 +/- 4.85E-05
	13	208.71	2.72E+00 +/- 2.77E-01	1.42E+00	4.54E-04 +/- 4.69E-05
	14	311.90	4.31E-01 +/- 9.69E-02	1.36E+00	3.71E-04 +/- 1.72E-05
M	15	333.57	5.35E-01 +/- 1.12E-01	1.35E+00	3.53E-04 +/- 1.64E-05
m	16	336.19	2.15E-01 +/- 6.32E-02	1.35E+00	3.51E-04 +/- 1.64E-05
	17	345.78	6.07E-01 +/- 1.05E-01	1.35E+00	3.44E-04 +/- 1.65E-05
	18	375.80	7.12E-01 +/- 1.63E-01	1.33E+00	3.22E-04 +/- 1.72E-05
M	19	380.88	2.41E-01 +/- 7.89E-02	1.33E+00	3.19E-04 +/- 1.74E-05
m	20	384.01	1.83E-01 +/- 6.31E-02	1.33E+00	3.17E-04 +/- 1.75E-05
	21	393.62	3.90E-01 +/- 8.14E-02	1.33E+00	3.10E-04 +/- 1.77E-05
	22	413.70	1.28E+00 +/- 1.12E-01	1.32E+00	2.98E-04 +/- 1.80E-05
	23	452.42	1.27E-01 +/- 5.92E-02	1.31E+00	2.75E-04 +/- 1.81E-05
	24	662.42	8.69E-02 +/- 4.34E-02	1.25E+00	1.96E-04 +/- 1.14E-05
	25	722.01	4.75E-02 +/- 2.71E-02	1.24E+00	1.81E-04 +/- 9.66E-06
	26	964.13	2.61E-02 +/- 1.50E-02	1.20E+00	1.41E-04 +/- 6.33E-06
	27	2236.00	1.00E+02 +/- 1.50E+00	1.13E+00	7.64E-05 +/- 4.15E-05

Segment: 15 Detector: DET01 (# 1) Position: 15

Elapsed Live Time: 113.99 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.746 +/- 0.0215
SE-75	264.65	0.000 +/- 0.0000	0.787 +/- 0.0169
SE-75	279.53	0.000 +/- 0.0000	0.788 +/- 0.0179
SE-75	400.65	0.000 +/- 0.0000	0.819 +/- 0.0206

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	49.87	3.88E+00 +/- 6.67E-01	1.16E+00	1.72E-06 +/- 4.50E-06
	2	60.19	8.46E+01 +/- 1.43E+00	1.15E+00	1.23E-05 +/- 2.03E-05
	3	99.48	1.79E+00 +/- 3.39E-01	1.12E+00	2.34E-04 +/- 5.73E-05
	4	103.70	6.72E-01 +/- 4.43E-01	1.12E+00	2.66E-04 +/- 5.02E-05
M	5	125.97	8.25E-01 +/- 1.20E-01	1.12E+00	4.05E-04 +/- 2.37E-05
m	6	130.03	2.83E+00 +/- 2.66E-01	1.12E+00	4.24E-04 +/- 2.75E-05
	7	148.57	3.94E-01 +/- 1.74E-01	1.11E+00	4.82E-04 +/- 5.01E-05
	8	204.42	2.24E-01 +/- 1.39E-01	1.10E+00	4.86E-04 +/- 5.43E-05
	9	208.83	6.79E-01 +/- 1.79E-01	1.10E+00	4.80E-04 +/- 5.23E-05
	10	345.97	2.21E-01 +/- 7.94E-02	1.08E+00	3.13E-04 +/- 1.53E-05
	11	375.76	4.99E-01 +/- 1.01E-01	1.08E+00	2.88E-04 +/- 1.59E-05
	12	393.98	1.85E-01 +/- 6.81E-02	1.08E+00	2.74E-04 +/- 1.62E-05
	13	413.70	5.36E-01 +/- 7.89E-02	1.08E+00	2.62E-04 +/- 1.65E-05
	14	443.98	5.35E-02 +/- 3.77E-02	1.07E+00	2.45E-04 +/- 1.65E-05
	15	662.42	1.04E-01 +/- 3.00E-02	1.06E+00	1.75E-04 +/- 1.08E-05
	16	722.01	5.92E-02 +/- 2.98E-02	1.06E+00	1.64E-04 +/- 9.17E-06
	17	867.39	5.07E-02 +/- 2.59E-02	1.05E+00	1.44E-04 +/- 6.82E-06
	18	2236.00	1.00E+02 +/- 1.50E+00	1.03E+00	3.18E-05 +/- 1.80E-05

Segment: 16 Detector: DET01 (# 1) Position: 16

Elapsed Live Time: 114.28 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.889 +/- 0.0246
SE-75	264.65	0.000 +/- 0.0000	0.898 +/- 0.0192
SE-75	279.53	0.000 +/- 0.0000	0.906 +/- 0.0205
SE-75	400.65	0.000 +/- 0.0000	0.917 +/- 0.0228

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)		Correction Factor	Original Efficiency	
	1	60.20	2.07E+01 +/-	5.87E-01	1.06E+00	5.63E-05 +/-	2.41E-05
	2	99.52	8.23E-01 +/-	1.92E-01	1.05E+00	1.69E-04 +/-	2.09E-05
M	3	111.60	2.94E-01 +/-	1.00E-01	1.05E+00	1.96E-04 +/-	1.73E-05
m	4	114.89	3.58E-01 +/-	1.10E-01	1.05E+00	2.03E-04 +/-	1.66E-05
	5	129.29	5.08E-01 +/-	1.37E-01	1.05E+00	2.27E-04 +/-	1.46E-05
	6	209.20	1.98E-01 +/-	9.38E-02	1.04E+00	2.62E-04 +/-	1.78E-05
	7	279.54	1.36E-01 +/-	7.90E-02	1.04E+00	2.37E-04 +/-	1.43E-05
	8	400.66	1.46E-01 +/-	5.52E-02	1.03E+00	1.84E-04 +/-	9.10E-06
	9	413.70	1.24E-01 +/-	4.61E-02	1.03E+00	1.79E-04 +/-	8.85E-06
	10	1112.12	8.62E-03 +/-	8.62E-03	1.02E+00	7.38E-05 +/-	3.43E-06
	11	2236.00	1.00E+02 +/-	1.49E+00	1.01E+00	6.28E-05 +/-	1.87E-05

Summed Spectrum

Peak Locate Report

Sample ID: LL85234292
Peak Locate Performed on: 4-01-08 1:28:34 PM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192
Peak Search Sensitivity: 5.00

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
1	64.94	0.2317	32.13	7.05
2	100.79	0.1688	50.06	10.53
3	121.05	0.0416	60.19	250.81
4	199.74	0.0928	99.54	47.23
5	208.30	0.1080	103.82	36.62
6	224.09	0.1534	111.71	18.15
7	231.20	0.1746	115.27	13.47
8	260.79	0.0887	130.06	54.64
9	290.25	0.2445	144.79	8.26
10	299.51	0.1918	149.42	12.02
11	373.51	0.1771	186.42	12.54
12	409.17	0.1643	204.25	16.03
13	418.08	0.1072	208.71	36.46
14	625.85	0.2063	312.59	9.30
15	667.57	0.1660	333.50	13.73
16	673.92	0.2498	336.41	7.69
17	692.25	0.1619	345.79	14.95
18	752.35	0.1225	375.84	24.28
19	762.17	0.2132	380.98	10.17
20	767.99	0.2485	383.48	7.56
21	787.90	0.1715	393.61	13.59
22	829.63	0.1226	414.48	23.73
23	847.20	0.2552	423.27	6.26
24	905.08	0.2094	452.20	9.11
25	1024.47	0.1992	511.90	8.03
26	1327.05	0.2388	663.19	6.19
27	2349.32	0.2555	1174.33	5.29
28	2668.56	0.2416	1333.94	5.26
29	4451.27	0.2207	2225.30	5.32
30	4473.25	0.0265	2236.29	412.06

Errors quoted at 1.000 sigma

Summed Spectrum

Peak Analysis Report

Sample ID: LL85234292
Peak Analysis Performed on: 4-01-08 1:28:34 PM
Peak Analysis From Channel: 40
Peak Analysis To Channel: 8192

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	1	61-	71	64.94	32.13	5.81E+02	52.31	7.75E+02
	2	94-	107	100.79	50.06	6.42E+03	263.44	2.17E+04
	3	114-	127	121.05	60.19	1.10E+05	401.97	1.85E+04
	4	194-	206	199.74	99.54	1.35E+03	213.52	1.62E+04
	5	206-	215	208.30	103.82	3.71E+03	132.32	5.03E+03
	6	217-	227	224.09	111.71	6.02E+02	104.42	4.19E+03
	7	227-	238	231.20	115.27	4.04E+02	118.72	5.09E+03
	8	256-	267	260.79	130.06	3.62E+03	118.22	3.86E+03
	9	283-	293	290.25	144.79	1.23E+02	71.88	2.10E+03
	10	297-	303	299.51	149.42	3.16E+02	56.05	1.49E+03
	11	369-	378	373.51	186.42	4.19E+02	57.07	1.25E+03
	12	401-	412	409.17	204.25	4.94E+02	61.45	1.31E+03
	13	412-	425	418.08	208.71	1.45E+03	87.95	2.17E+03
	14	621-	633	625.85	312.59	2.57E+02	38.89	4.74E+02
M	15	660-	679	667.66	333.50	5.27E+02	40.43	3.04E+02
m	16	660-	679	673.50	336.41	2.25E+02	24.72	3.66E+02
	17	689-	699	692.25	345.79	4.39E+02	34.45	3.06E+02
	18	746-	758	752.35	375.84	9.95E+02	47.73	4.79E+02
M	19	758-	775	762.62	380.98	1.21E+02	25.12	3.04E+02
m	20	758-	775	767.63	383.48	1.19E+02	22.82	1.86E+02
	21	780-	795	787.90	393.61	4.43E+02	34.53	2.50E+02
	22	821-	837	829.63	414.48	1.09E+03	41.20	1.96E+02
	23	842-	852	847.20	423.27	4.41E+01	20.84	1.61E+02
	24	899-	910	905.08	452.20	1.27E+02	21.55	1.35E+02
	25	1016-	1032	1024.47	511.90	4.00E+02	28.64	1.34E+02
	26	1322-	1335	1327.05	663.19	8.28E+01	17.80	8.42E+01
	27	2346-	2358	2349.32	1174.33	4.48E+01	11.56	3.22E+01
	28	2664-	2674	2668.56	1333.94	5.71E+01	9.76	1.59E+01
	29	4445-	4459	4451.27	2225.30	7.85E+01	10.03	7.50E+00
	30	4467-	4479	4473.25	2236.29	1.85E+05	430.30	1.24E+02

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Summed Spectrum

Nuclide Identification Report

Sample ID: LL85234292
Nuclide Library Used: C:\WAS\NLIB\LLNL.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (uCi/)	Activity Uncertainty
Pulser	0.994	2236.00*	100.00	7.840E+02	1.780E+02
U-235	0.965	185.71*	57.20	6.430E-01	8.873E-02
Np-237	0.735	300.10	6.63		
		311.90*	38.60	6.806E-01	1.031E-01
Pu-239	0.958	413.70*	0.00	9.062E+04	3.825E+03
Pu-239A	0.959	129.29*	0.01	6.153E+04	2.478E+03
Am-241	0.959	662.42*	0.00	3.695E+04	7.952E+03
Pu-241	0.949	148.57*	0.00	1.608E+05	2.869E+04

* = Energy line found in the spectrum.
Energy Tolerance : 1.500 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 4-01-08 1:28:34 PM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192

	Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
	1	32.13	5.0467E+00	9.01
	2	50.06	5.5771E+01	4.11
	3	60.19	9.5798E+02	0.44
	4	99.54	1.1697E+01	15.86
	5	103.82	3.2273E+01	3.57
	6	111.71	5.2266E+00	17.36
	7	115.27	3.5063E+00	29.42
	9	144.79	1.0693E+00	58.41
	12	204.25	4.2907E+00	12.45
	13	208.71	1.2629E+01	6.06
M	15	333.50	4.5781E+00	7.68
m	16	336.41	1.9575E+00	10.97
	17	345.79	3.8099E+00	7.86
	18	375.84	8.6452E+00	4.80
M	19	380.98	1.0528E+00	20.73
m	20	383.48	1.0373E+00	19.12
	21	393.61	3.8502E+00	7.80
	23	423.27	3.8273E-01	47.32
	24	452.20	1.1038E+00	16.96
	25	511.90	3.4752E+00	7.16
	27	1174.33	3.8928E-01	25.80
	28	1333.94	4.9609E-01	17.10
	29	2225.30	6.8202E-01	12.78

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Combined Segment NID

NID Results Combiner Mode: Sum Activities

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		8.48E+02	+/-	1.25E+02	2.01E-02	+/-	2.96E-03
SE-75	<	6.17E-02	+/-	4.20E-03	< 1.46E-06	+/-	9.94E-08
EU-152x	<	2.29E-01	+/-	1.69E-02	< 5.44E-06	+/-	4.01E-07
U-233	<	3.99E+03	+/-	3.18E+02	< 9.45E-02	+/-	7.53E-03
U-235		5.48E-01	+/-	6.55E-02	1.30E-05	+/-	1.55E-06
Np-237		5.30E-01	+/-	7.27E-02	1.26E-05	+/-	1.72E-06
Pu-238		2.96E+04	+/-	4.52E+03	7.00E-01	+/-	1.07E-01
U-238		3.90E+00	+/-	1.14E+00	9.24E-05	+/-	2.70E-05
Pu-239		8.05E+04	+/-	3.37E+03	1.91E+00	+/-	8.00E-02
Pu-239A		7.52E+04	+/-	2.55E+03	1.78E+00	+/-	6.04E-02
Am-241		4.13E+04	+/-	5.70E+03	9.79E-01	+/-	1.35E-01
Am-241D		3.06E+04	+/-	6.04E+03	7.25E-01	+/-	1.43E-01
Pu-241		1.27E+05	+/-	2.02E+04	3.00E+00	+/-	4.79E-01

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
U-235	2.54E-01	+/-	3.03E-02
Np-237	7.52E-04	+/-	1.03E-04
Pu-238	1.73E-03	+/-	2.64E-04
U-238	1.16E+01	+/-	3.40E+00
Pu-239	1.30E+00	+/-	5.43E-02
Pu-239A	1.21E+00	+/-	4.10E-02
Am-241	1.21E-02	+/-	1.66E-03
Pu-241	1.22E-03	+/-	1.95E-04

Summed Spectrum

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		7.84E+02	+/-	1.78E+02	1.86E-02	+/-	4.22E-03
SE-75	<	2.74E-01	+/-	2.47E-03	< 6.50E-06	+/-	5.85E-08
EU-152x	<	4.73E-01	+/-	8.50E-03	< 1.12E-05	+/-	2.02E-07
U-233	<	1.94E+04	+/-	4.14E+02	< 4.60E-01	+/-	9.81E-03
U-235		6.43E-01	+/-	8.87E-02	1.52E-05	+/-	2.10E-06
Np-237		6.81E-01	+/-	1.03E-01	1.61E-05	+/-	2.44E-06
Pu-238	<	3.30E+04	+/-	6.16E+02	< 7.83E-01	+/-	1.46E-02
U-238	<	1.42E+01	+/-	2.25E-01	< 3.37E-04	+/-	5.34E-06
Pu-239		9.06E+04	+/-	3.83E+03	2.15E+00	+/-	9.06E-02
Pu-239A		6.15E+04	+/-	2.48E+03	1.46E+00	+/-	5.87E-02
Am-241		3.70E+04	+/-	7.95E+03	8.76E-01	+/-	1.88E-01
Am-241D	<	6.44E+04	+/-	6.03E+02	< 1.53E+00	+/-	1.43E-02
Pu-241		1.61E+05	+/-	2.87E+04	3.81E+00	+/-	6.80E-01

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
U-235	2.98E-01	+/-	4.11E-02
Np-237	9.66E-04	+/-	1.46E-04
Pu-239	1.46E+00	+/-	6.16E-02
Pu-239A	9.91E-01	+/-	3.99E-02
Am-241	1.08E-02	+/-	2.32E-03
Pu-241	1.55E-03	+/-	2.77E-04

Final Non-Uniformity Results

Source Longitudinal Ratio:	0.914	+/-	6.2687
Matrix Longitudinal Ratio:	0.867	+/-	0.0911
Source Vertical Ratio:	0.653	+/-	0.3489
Matrix Vertical Ratio:	0.854	+/-	0.0235

NUDS could not find the transmission peak in one radial segment.

Radioassay Data Sheet — Wed Apr 30 03:21:17 2008
Procedure ID & Rev: WCP-55 03/07/2002 — Software Version: GWAS v2.3bGEN

Drum ID	: LL85234292-R	Gross Weight (kg)	: 66.0
Sequence Number	: 2648	Fill Height (%)	: 100.0
Assay Date	: 04/01/08 13:43:49	Density (g/cc)	: 0.20
		Net Weight (kg)	: 42.20
Batch Number	:	Waste Matrix Code	:
Site ID	:	TRUCON	:

	Errors at 1.00 Sigma		
TRU Alpha Activity Concentration:	4.19e-06	+/- 4.53e-07	Ci/g
Total Pu-239 Equiv Activity:	1.77e-01	+/- 1.87e-02	Ci
Total Pu-239 Fissile Gram Equiv:	1.50e+00	+/- 2.37e-01	g
Decay Heat:	5.74e-03	+/- 6.18e-04	W
Total Pu Mass:	1.29e+00	+/- 2.28e-01	g
TMU:	19.37%		
Waste Classification:	TRU		

Isotopics Data

Measured Isotope	MGA Report Weight %	MGA Report % Err (1.00 Sigma)
Pu-238	2.18e-01	2.17e+00
Pu-239	9.12e+01	2.48e-01
Pu-240	8.38e+00	2.67e+00
Pu-241	1.83e-01	2.63e+00
Pu-242	4.85e-02	1.10e+01
Am-241	7.08e-01	1.73e+00
Am-243	0.00e+00	0.00e+00
Np-237	0.00e+00	0.00e+00
U-235	2.50e+01	5.54e+00

Activity Errors

Isotope	Isotope Mass (g)	1.00 Sigma Error/Isotope Mass (g)	Alpha Activity/ Isotope (Ci)	1.00 Sigma Error/Isotope (Ci)	MDA (g)
Pu-238	2.80e-03	5.46e-04	4.80e-02	9.36e-03	4.19e-04
Pu-239	1.17e+00	2.27e-01	7.27e-02	1.41e-02	3.70e-02
Pu-240	1.08e-01	2.11e-02	2.44e-02	4.78e-03	0.00e+00
Pu-241	2.36e-03	4.61e-04	2.44e-01	4.77e-02	4.34e-04
Pu-242	6.23e-04	1.39e-04	2.45e-06	5.45e-07	0.00e+00
Am-241	9.22e-03	2.21e-03	3.16e-02	7.55e-03	2.66e-03
Am-243	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
Np-237	7.98e-04	1.84e-04	5.63e-07	1.30e-07	1.56e-04
U-235	3.22e-01	6.73e-02	6.95e-07	1.46e-07	4.29e-02
*U-238	<LLD	0.00e+00	0.00e+00	0.00e+00	1.26e+01
*U-233	<LLD	0.00e+00	0.00e+00	0.00e+00	4.12e-01
CS-137	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
U-234	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
SR-90	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00

* = Activity/Mass below detectable limit.

Operator Signature — Date

Robert J Hazlett Jr Yes — 4-30-08

Reviewer Signature — Date

AUTOMATED INDEPENDENT TECHNICAL REVIEW BASED ON WCP-55 03/07/2002

Software Version: GWAS v2.3bGEN
Counter Number: SGS
Data Review for Container: LL85234292-R
Item Description Code: \Count Type: DEBRIS
Sequence Number: 2648
Assayed on: 04/01/08 13:43:49
Report Generated: 04/30/08 15:21:02
AITR Version 1.4

Section 1 MGA Analysis Review Using MGA Isotopics

REVIEW Pu-240 Wt Pct -2 Sigma error <7.93> greater than <5.87> Review MGA Results OK
Pu-240 Wt Pct error <2.67> is within limits
Pu-238 Wt Pct error <2.17> is within limits
QFIT <1.00> is within limits

Section 2 - CONTAINER DENSITY REVIEW

Container density <0.203> g/cc is within UPPER and LOWER limits

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Section 3 - SELF-ABSORPTION REVIEW

Pu-239/Pu-239a ratio <9.90e-01> is within limits

Section 4 - PULSER REVIEW

DEAD TIME percentage <0.55> is acceptable in Segment 1
Pulser value <0.99> is within range in Segment 1
DEAD TIME percentage <0.54> is acceptable in Segment 2
Pulser value <0.99> is within range in Segment 2
DEAD TIME percentage <0.56> is acceptable in Segment 3
Pulser value <0.98> is within range in Segment 3
DEAD TIME percentage <0.54> is acceptable in Segment 4
Pulser value <0.99> is within range in Segment 4
DEAD TIME percentage <0.54> is acceptable in Segment 5
Pulser value <0.99> is within range in Segment 5
DEAD TIME percentage <0.63> is acceptable in Segment 6
Pulser value <0.99> is within range in Segment 6
DEAD TIME percentage <0.73> is acceptable in Segment 7
Pulser value <0.98> is within range in Segment 7
DEAD TIME percentage <0.76> is acceptable in Segment 8
Pulser value <0.99> is within range in Segment 8
DEAD TIME percentage <0.71> is acceptable in Segment 9
Pulser value <0.98> is within range in Segment 9
DEAD TIME percentage <0.84> is acceptable in Segment 10
Pulser value <0.99> is within range in Segment 10
DEAD TIME percentage <1.02> is acceptable in Segment 11
Pulser value <0.99> is within range in Segment 11
DEAD TIME percentage <1.34> is acceptable in Segment 12
Pulser value <0.99> is within range in Segment 12
DEAD TIME percentage <1.52> is acceptable in Segment 13
Pulser value <0.99> is within range in Segment 13
DEAD TIME percentage <1.27> is acceptable in Segment 14
Pulser value <0.99> is within range in Segment 14
DEAD TIME percentage <0.90> is acceptable in Segment 15
Pulser value <0.99> is within range in Segment 15
DEAD TIME percentage <0.63> is acceptable in Segment 16
Pulser value <0.99> is within range in Segment 16

Section 5 - TRANSMISSION REVIEW

Transmission results are acceptable in Segment 1
Transmission results are acceptable in Segment 2
Transmission results are acceptable in Segment 3
Transmission results are acceptable in Segment 4
Transmission results are acceptable in Segment 5
Transmission results are acceptable in Segment 6
Transmission results are acceptable in Segment 7
Transmission results are acceptable in Segment 8

Transmission results are acceptable in Segment 9
Transmission results are acceptable in Segment 10
Transmission results are acceptable in Segment 11
Transmission results are acceptable in Segment 12
Transmission results are acceptable in Segment 13
Transmission results are acceptable in Segment 14
Transmission results are acceptable in Segment 15
Transmission results are acceptable in Segment 16

Section 6 - REDUCED CHI SQUARED FIT REVIEW

All energy peaks within <3.00e+00> RCHISQ limit

Section 7 - FGE MASS REVIEW

FGE Mass <1.74> is within limits

Section 8 - PERCENT FULL REVIEW

Percent Full <100.0> is above lower limit <30.0>

Section 9 - IDC COUNT TYPE REVIEW

REVIEW IDC is not available

Section 10 - AM-241 & NP-237 INTERFERENCE REVIEW

REVIEW Am-241 ratio <127.13> is below lower limit <200.00> OK
Np-237 ratio <1468.32> is above lower limit <125.00>

Section 11 - PU-239 CALIBRATION RANGE REVIEW

Pu-239 <1.17> is within limits

Section 12 - CS-137 INTERFERENCE REVIEW

Am-241D > Am-241A: Calculation not performed ok. Checked.

Independent Reviewer: Robert J Hamlett Jr Date: 4-30-08

INDEPENDENT TECHNICAL REVIEW COMMENT SHEET

Counter Number: SGS
Data Review for Container: LL85234292-R
Item Description Code:
Sequence Number: 2648
Assayed on: 04/01/08 13:43:49
AITR Version 1.4

Comments	Disposition
SECTION 1 - MGA Pu-240 Wt Pct -2 Sigma error is greater than upper limit.	OK
SECTION 9 - IDC COUNT TYPE IDC is not available.	N/A
SECTION 10 - AM-241 & NP-237 INTERFERENCE TEST Possible Am-241 interference with 129 KeV peak.	Ok. Checked.

Technical Reviewer: Robert Hazlett Date: 4-30-08

****
***** M G A R E P O R T *****
****

Report generated on: 4-30-08 3:19:47 PM

MGA version: MGA V9.5 CI

Spectrum ID: 11202648.CNF Sens : 30.0% LT: 56.1 Mins DT: 0.41
Measurement date: 4-01-08 Declared date: 4-01-08

Sample ID: LL85234292-R Detector: Total counts: 4.351E+05

Pu g/cm2 = 0.0723 Cd g/cm2 = 1.8600 FWHM at 122 keV = 632 eV
QFIT = 1.00 FWHM at 208 keV = 809 eV
NQFIT = 1.00

Isotope	Relative to Pu-239	%* Err	% Err	Relative to Pu-241	%* Err	Isotope analysis at Meas. date % weight	%Err	Decl. date % weight	%Err
Pu-238	0.002391	2.3	1.8	1.1892	2.6	0.21804	2.17	0.21804	2.17
Pu-239	1.000000	0.0	1.5	497.2495	2.7	91.17435	0.25	91.17435	0.25
Pu-240	0.091866	2.9	2.5	45.6801	3.4	8.37579	2.67	8.37579	2.67
Pu-241	0.002011	2.7	2.3	1.0000	0.0	0.18336	2.63	0.18336	2.63
Pu-242	(New alg.)			0.2643	(11)	0.04847	(11)	0.04847	(11)
Am-241	0.007768	1.8	1.1	3.8625	2.5	0.70821	1.73	0.70821	1.73
U-235	0.274679	5.3	5.6			25.04366	5.54	25.04366	5.54

Pu-240 effective (meas. date) = 9.007 +/- 2.86%
Am-241 separated about 32.739 +/- 0.431 years ago
Am/Pu-241 weight ratio = 3.86247 +/- 2.54%

Messages :

Lead x-rays detected.
Error in GFIT routine : probable weak peak in location 2.
17 MGA parameter(s) defaulted, starting from parameter 8.

Notes : * = Error in ratio
1.000 sigma errors

Gamma Waste Assay

Sample Information

File Name: C:\WAS\DATA\2700\11102648.S11
Sample ID: LL85234292-R Count Sequence Number: 2648
Assay Start: 4-01-08 1:43:51 PM
Description 1:
Description 2:
Location:
Comment:
Waste Type:
Weight: Gross: 66000.0 g Net: 42200.0 g
Density: 0.203 g /ml

Container Type: 55 Gal Galv 23.8
Container: Volume: 208000. ml Full: 100.0 %

System Configuration

Counter ID Number: SGS
Arrangement Description: SGS
Segments: Number: 16 Offset: 0
Scanning Platform: Start: 934 mm Delta: -51 mm
Count Type: 55 Gal Galv 23.8
Collimator/Geometry Setting: 0
Transmission Mode: Two pass
Transmission Source: 0

Errors quoted at 1.000 sigma
Reference Source Date: Reference Source Rate: 1.00E+02 cps
Geometric Correction Factor(SWCONTGCF): 0.760
Date of efficiency calibration approval: 8-27-2003 2:05:34 PM
Mu Factors response file: Lucite response
Transmission Calib. Time: 12-10-2007 3:51:07 PM 28849

Reviewed by: Robert J Hazlett Jr Date: 4-30-08

Segment Results

Segment: 1 Detector: DET01 (# 1) Position: 1

Elapsed Live Time: 114.37 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.126 +/- 0.0071
SE-75	264.65	0.000 +/- 0.0000	0.203 +/- 0.0047
SE-75	279.53	0.000 +/- 0.0000	0.206 +/- 0.0056
SE-75	400.65	0.000 +/- 0.0000	0.253 +/- 0.0079

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	49.34	1.25E+00 +/- 1.76E-01	2.48E+00	7.07E-07 +/- 2.13E-06
2	400.66	6.05E-02 +/- 4.93E-02	1.61E+00	2.10E-04 +/- 1.43E-05
3	867.39	8.68E-03 +/- 8.68E-03	1.39E+00	1.02E-04 +/- 5.64E-06
4	1001.03	4.41E-02 +/- 2.29E-02	1.36E+00	9.18E-05 +/- 4.92E-06
5	1085.91	4.34E-02 +/- 1.94E-02	1.34E+00	8.64E-05 +/- 4.52E-06
6	2236.00	1.00E+02 +/- 1.50E+00	1.24E+00	3.40E-05 +/- 2.15E-05

Segment: 2 Detector: DET01 (# 1) Position: 2

Elapsed Live Time: 114.38 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.174 +/- 0.0080
SE-75	264.65	0.000 +/- 0.0000	0.261 +/- 0.0059
SE-75	279.53	0.000 +/- 0.0000	0.266 +/- 0.0068
SE-75	400.65	0.000 +/- 0.0000	0.317 +/- 0.0094

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	49.59	1.03E+00 +/- 1.91E-01	2.20E+00	8.15E-05 +/- 2.12E-04
	2	60.35	2.16E-01 +/- 1.02E-01	2.07E+00	1.34E-04 +/- 2.14E-04
	3	300.10	1.21E-01 +/- 4.96E-02	1.57E+00	3.67E-04 +/- 1.80E-05
	4	511.75	1.32E-01 +/- 4.54E-02	1.44E+00	2.38E-04 +/- 1.72E-05
	5	867.39	2.59E-02 +/- 1.49E-02	1.32E+00	1.44E-04 +/- 6.91E-06
	6	964.13	1.72E-02 +/- 1.22E-02	1.30E+00	1.32E-04 +/- 6.07E-06
	7	2236.00	1.00E+02 +/- 1.49E+00	1.20E+00	9.73E-05 +/- 5.41E-05

Segment: 3 Detector: DET01 (# 1) Position: 3

Elapsed Live Time: 114.36 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.186 +/- 0.0096
SE-75	264.65	0.000 +/- 0.0000	0.278 +/- 0.0077
SE-75	279.53	0.000 +/- 0.0000	0.282 +/- 0.0085
SE-75	400.65	0.000 +/- 0.0000	0.329 +/- 0.0110

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	60.16	1.54E-01 +/- 1.12E-01	2.02E+00	8.07E-05 +/- 2.79E-05
	2	311.90	6.00E-02 +/- 4.24E-02	1.53E+00	4.04E-04 +/- 1.79E-05
	3	867.39	7.28E-02 +/- 3.09E-02	1.31E+00	1.51E-04 +/- 6.93E-06
	4	964.13	2.58E-02 +/- 1.49E-02	1.29E+00	1.39E-04 +/- 5.75E-06
	5	1001.03	8.61E-03 +/- 8.61E-03	1.29E+00	1.35E-04 +/- 5.37E-06
	6	1112.12	1.72E-02 +/- 1.22E-02	1.27E+00	1.27E-04 +/- 4.65E-06
F	7	2236.21	1.00E+02 +/- 2.03E+00	1.19E+00	1.32E-04 +/- 3.24E-05

Segment: 4 Detector: DET01 (# 1) Position: 4

Elapsed Live Time: 114.38 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.190 +/- 0.0085
SE-75	264.65	0.000 +/- 0.0000	0.278 +/- 0.0063
SE-75	279.53	0.000 +/- 0.0000	0.290 +/- 0.0074
SE-75	400.65	0.000 +/- 0.0000	0.332 +/- 0.0097

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.10	5.77E-01 +/- 1.33E-01	2.01E+00	3.60E-05 +/- 5.74E-05
2	400.66	4.25E-02 +/- 3.50E-02	1.48E+00	3.02E-04 +/- 1.76E-05
3	2236.00	1.00E+02 +/- 1.49E+00	1.19E+00	7.00E-05 +/- 3.84E-05

Segment: 5 Detector: DET01 (# 1) Position: 5

Elapsed Live Time: 114.38 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.198 +/- 0.0094
SE-75	264.65	0.000 +/- 0.0000	0.274 +/- 0.0074
SE-75	279.53	0.000 +/- 0.0000	0.279 +/- 0.0082
SE-75	400.65	0.000 +/- 0.0000	0.337 +/- 0.0110

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	60.17	1.46E+00 +/- 1.93E-01	1.98E+00	4.79E-05 +/- 8.23E-05
	2	121.11	1.68E-01 +/- 1.07E-01	1.76E+00	3.80E-04 +/- 2.33E-05
	3	185.71	1.18E-01 +/- 7.72E-02	1.66E+00	4.66E-04 +/- 5.86E-05
	4	867.39	3.10E-02 +/- 2.18E-02	1.30E+00	1.52E-04 +/- 7.20E-06
	5	964.13	1.72E-02 +/- 1.22E-02	1.28E+00	1.39E-04 +/- 6.40E-06
	6	1112.12	8.62E-03 +/- 8.62E-03	1.26E+00	1.23E-04 +/- 5.54E-06
F	7	2236.16	1.00E+02 +/- 2.02E+00	1.19E+00	5.76E-05 +/- 3.29E-05

Segment: 6 Detector: DET01 (# 1) Position: 6

Elapsed Live Time: 114.28 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.168 +/- 0.0085
SE-75	264.65	0.000 +/- 0.0000	0.245 +/- 0.0056
SE-75	279.53	0.000 +/- 0.0000	0.250 +/- 0.0065
SE-75	400.65	0.000 +/- 0.0000	0.303 +/- 0.0091

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.19	1.20E+01 +/- 4.37E-01	2.10E+00	6.09E-05 +/- 9.95E-05
2	103.78	5.39E-01 +/- 1.85E-01	1.89E+00	3.30E-04 +/- 6.16E-05
3	129.29	6.66E-01 +/- 1.58E-01	1.84E+00	4.31E-04 +/- 2.73E-05
4	144.09	2.55E-01 +/- 1.05E-01	1.81E+00	4.63E-04 +/- 4.42E-05
5	185.71	3.77E-01 +/- 1.15E-01	1.74E+00	4.84E-04 +/- 5.81E-05
6	375.96	1.46E-01 +/- 5.67E-02	1.54E+00	3.33E-04 +/- 1.84E-05
7	413.70	1.74E-01 +/- 5.44E-02	1.51E+00	3.09E-04 +/- 1.95E-05
8	964.13	3.46E-02 +/- 2.18E-02	1.31E+00	1.51E-04 +/- 6.52E-06
9	1085.91	1.73E-02 +/- 1.22E-02	1.29E+00	1.34E-04 +/- 5.68E-06
10	1333.10	8.50E-02 +/- 3.07E-02	1.26E+00	1.06E-04 +/- 5.69E-06
11	2236.00	1.00E+02 +/- 1.50E+00	1.21E+00	4.34E-05 +/- 2.42E-05

Segment: 7 Detector: DET01 (# 1) Position: 7

Elapsed Live Time: 114.16 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.145 +/- 0.0080
SE-75	264.65	0.000 +/- 0.0000	0.207 +/- 0.0049
SE-75	279.53	0.000 +/- 0.0000	0.203 +/- 0.0055
SE-75	400.65	0.000 +/- 0.0000	0.237 +/- 0.0076

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	49.73	1.66E+00 +/- 4.51E-01	2.35E+00	2.69E-06 +/- 6.42E-06
	2	60.19	3.39E+01 +/- 7.83E-01	2.21E+00	1.61E-05 +/- 2.39E-05
	3	99.55	2.21E+00 +/- 3.87E-01	1.99E+00	2.45E-04 +/- 5.49E-05
	4	104.00	8.36E-01 +/- 2.56E-01	1.98E+00	2.79E-04 +/- 4.79E-05
	5	111.60	4.80E-01 +/- 2.01E-01	1.96E+00	3.34E-04 +/- 3.50E-05
M	6	125.99	6.82E-01 +/- 1.14E-01	1.93E+00	4.24E-04 +/- 2.46E-05
m	7	130.11	2.43E+00 +/- 2.53E-01	1.92E+00	4.45E-04 +/- 2.78E-05
	8	152.68	3.35E-01 +/- 1.54E-01	1.88E+00	5.26E-04 +/- 5.21E-05
	9	185.71	1.29E+00 +/- 1.68E-01	1.82E+00	5.59E-04 +/- 6.06E-05
	10	208.73	5.32E-01 +/- 1.20E-01	1.79E+00	5.47E-04 +/- 5.32E-05
	11	311.90	2.33E-01 +/- 9.00E-02	1.70E+00	4.17E-04 +/- 1.86E-05
	12	333.33	1.92E-01 +/- 8.87E-02	1.69E+00	3.92E-04 +/- 1.76E-05
	13	345.78	2.01E-01 +/- 7.68E-02	1.68E+00	3.78E-04 +/- 1.76E-05
	14	362.16	9.77E-02 +/- 6.73E-02	1.67E+00	3.61E-04 +/- 1.79E-05
	15	375.82	5.12E-01 +/- 1.09E-01	1.66E+00	3.48E-04 +/- 1.82E-05
	16	393.57	1.97E-01 +/- 5.98E-02	1.65E+00	3.33E-04 +/- 1.86E-05
	17	413.70	5.04E-01 +/- 8.14E-02	1.63E+00	3.17E-04 +/- 1.88E-05
	18	452.03	9.91E-02 +/- 4.56E-02	1.61E+00	2.90E-04 +/- 1.86E-05
	19	964.13	3.19E-02 +/- 2.33E-02	1.39E+00	1.49E-04 +/- 6.59E-06
	20	1085.91	3.28E-02 +/- 2.24E-02	1.36E+00	1.35E-04 +/- 5.76E-06
	21	2236.00	1.00E+02 +/- 1.49E+00	1.25E+00	5.07E-05 +/- 2.69E-05

Segment: 8 Detector: DET01 (# 1) Position: 8

Elapsed Live Time: 114.13 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.088 +/- 0.0063
SE-75	264.65	0.000 +/- 0.0000	0.140 +/- 0.0034
SE-75	279.53	0.000 +/- 0.0000	0.148 +/- 0.0043
SE-75	400.65	0.000 +/- 0.0000	0.185 +/- 0.0063

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.24	2.71E-01 +/- 9.33E-02	3.69E+00	7.91E-06 +/- 7.63E-06
	2	60.19	3.08E+01 +/- 7.47E-01	2.59E+00	1.10E-04 +/- 3.84E-05
	3	99.61	1.68E+00 +/- 3.85E-01	2.30E+00	3.26E-04 +/- 3.29E-05
	4	103.70	9.07E-01 +/- 2.46E-01	2.29E+00	3.44E-04 +/- 3.09E-05
M	5	125.89	6.06E-01 +/- 1.09E-01	2.22E+00	4.19E-04 +/- 2.31E-05
m	6	130.01	2.81E+00 +/- 2.74E-01	2.21E+00	4.29E-04 +/- 2.26E-05
	7	152.68	2.59E-01 +/- 1.48E-01	2.15E+00	4.67E-04 +/- 2.32E-05
	8	185.71	1.64E+00 +/- 1.77E-01	2.07E+00	4.81E-04 +/- 2.59E-05
	9	208.72	5.23E-01 +/- 1.55E-01	2.03E+00	4.74E-04 +/- 2.60E-05
	10	311.90	2.64E-01 +/- 8.38E-02	1.86E+00	3.88E-04 +/- 1.78E-05
	11	333.68	1.56E-01 +/- 7.47E-02	1.84E+00	3.69E-04 +/- 1.62E-05
	12	345.94	2.31E-01 +/- 7.95E-02	1.83E+00	3.58E-04 +/- 1.54E-05
	13	375.77	3.53E-01 +/- 1.25E-01	1.80E+00	3.34E-04 +/- 1.38E-05
	14	393.55	3.20E-01 +/- 7.11E-02	1.78E+00	3.21E-04 +/- 1.31E-05
	15	413.70	3.44E-01 +/- 8.02E-02	1.76E+00	3.06E-04 +/- 1.25E-05
	16	452.41	7.02E-02 +/- 3.23E-02	1.73E+00	2.82E-04 +/- 1.16E-05
	17	511.61	3.38E-01 +/- 7.46E-02	1.68E+00	2.50E-04 +/- 1.09E-05
	18	1112.12	2.87E-02 +/- 1.92E-02	1.42E+00	1.26E-04 +/- 4.65E-06
	19	1275.37	8.34E-02 +/- 3.13E-02	1.39E+00	1.17E-04 +/- 5.24E-06
	20	2236.00	1.00E+02 +/- 1.50E+00	1.30E+00	1.19E-04 +/- 2.92E-05

Segment: 9 Detector: DET01 (# 1) Position: 9

Elapsed Live Time: 114.18 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.310 +/- 0.0124
SE-75	264.65	0.000 +/- 0.0000	0.406 +/- 0.0090
SE-75	279.53	0.000 +/- 0.0000	0.408 +/- 0.0099
SE-75	400.65	0.000 +/- 0.0000	0.450 +/- 0.0124

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.10	1.67E-01 +/- 7.69E-02	2.11E+00	6.39E-09 +/- 3.83E-08
2	49.21	1.11E+00 +/- 3.24E-01	1.75E+00	2.59E-06 +/- 6.63E-06
3	60.18	2.18E+01 +/- 6.12E-01	1.67E+00	1.65E-05 +/- 2.58E-05
4	100.04	2.22E+00 +/- 4.12E-01	1.55E+00	2.41E-04 +/- 5.47E-05
5	104.03	5.42E-01 +/- 2.28E-01	1.55E+00	2.69E-04 +/- 4.81E-05
6	111.72	4.90E-01 +/- 2.24E-01	1.54E+00	3.22E-04 +/- 3.46E-05
7	129.29	1.61E+00 +/- 2.20E-01	1.52E+00	4.21E-04 +/- 2.66E-05
8	152.68	6.18E-01 +/- 1.45E-01	1.49E+00	4.97E-04 +/- 5.14E-05
9	185.71	6.05E-01 +/- 1.66E-01	1.45E+00	5.24E-04 +/- 5.91E-05
10	203.95	1.58E-01 +/- 9.87E-02	1.43E+00	5.15E-04 +/- 5.35E-05
11	208.80	2.66E-01 +/- 1.76E-01	1.43E+00	5.10E-04 +/- 5.15E-05
M 12	333.30	1.89E-01 +/- 6.91E-02	1.36E+00	3.59E-04 +/- 1.71E-05
m 13	336.54	1.25E-01 +/- 5.12E-02	1.36E+00	3.56E-04 +/- 1.71E-05
14	345.69	2.03E-01 +/- 9.00E-02	1.35E+00	3.46E-04 +/- 1.72E-05
15	375.86	4.19E-01 +/- 9.86E-02	1.34E+00	3.18E-04 +/- 1.78E-05
16	413.70	4.74E-01 +/- 7.56E-02	1.33E+00	2.88E-04 +/- 1.83E-05
17	451.93	8.78E-02 +/- 2.96E-02	1.31E+00	2.63E-04 +/- 1.81E-05
18	511.32	2.54E-01 +/- 6.82E-02	1.29E+00	2.33E-04 +/- 1.66E-05
19	722.01	3.32E-02 +/- 2.23E-02	1.24E+00	1.72E-04 +/- 9.44E-06
20	778.90	4.10E-02 +/- 3.21E-02	1.23E+00	1.62E-04 +/- 8.21E-06
21	867.39	1.94E-02 +/- 1.74E-02	1.22E+00	1.49E-04 +/- 7.00E-06
22	1408.01	2.59E-02 +/- 1.49E-02	1.16E+00	1.05E-04 +/- 6.90E-06
23	2236.00	1.00E+02 +/- 1.49E+00	1.13E+00	6.12E-05 +/- 3.31E-05

Segment: 10 Detector: DET01 (# 1) Position: 10

Elapsed Live Time: 114.03 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.178 +/- 0.0091
SE-75	264.65	0.000 +/- 0.0000	0.271 +/- 0.0062
SE-75	279.53	0.000 +/- 0.0000	0.274 +/- 0.0071
SE-75	400.65	0.000 +/- 0.0000	0.328 +/- 0.0096

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	50.31	2.25E+00 +/- 5.52E-01	2.17E+00	8.54E-05 +/- 4.24E-05
	2	60.19	5.08E+01 +/- 1.01E+00	2.05E+00	1.37E-04 +/- 4.88E-05
	3	99.78	4.13E+00 +/- 5.47E-01	1.87E+00	3.31E-04 +/- 3.38E-05
	4	104.10	1.81E+00 +/- 2.99E-01	1.86E+00	3.47E-04 +/- 3.12E-05
	5	111.69	7.67E-01 +/- 2.45E-01	1.84E+00	3.72E-04 +/- 2.73E-05
M	6	126.06	6.23E-01 +/- 1.12E-01	1.81E+00	4.08E-04 +/- 2.27E-05
m	7	130.03	4.07E+00 +/- 3.32E-01	1.80E+00	4.16E-04 +/- 2.21E-05
	8	152.68	8.23E-01 +/- 1.89E-01	1.76E+00	4.47E-04 +/- 2.25E-05
	9	172.47	2.54E-01 +/- 1.59E-01	1.72E+00	4.59E-04 +/- 2.43E-05
	10	208.71	6.18E-01 +/- 1.86E-01	1.66E+00	4.56E-04 +/- 2.51E-05
	11	311.90	2.03E-01 +/- 9.41E-02	1.54E+00	3.87E-04 +/- 1.76E-05
	12	333.27	2.53E-01 +/- 1.03E-01	1.53E+00	3.71E-04 +/- 1.62E-05
	13	345.73	2.47E-01 +/- 8.24E-02	1.52E+00	3.61E-04 +/- 1.54E-05
	14	369.63	2.14E-01 +/- 8.19E-02	1.50E+00	3.44E-04 +/- 1.43E-05
	15	375.71	9.41E-01 +/- 1.39E-01	1.50E+00	3.40E-04 +/- 1.40E-05
	16	383.30	3.81E-01 +/- 9.33E-02	1.49E+00	3.35E-04 +/- 1.37E-05
	17	393.71	2.96E-01 +/- 7.90E-02	1.49E+00	3.28E-04 +/- 1.34E-05
	18	413.70	7.34E-01 +/- 9.86E-02	1.48E+00	3.15E-04 +/- 1.29E-05
	19	452.16	8.62E-02 +/- 3.90E-02	1.45E+00	2.92E-04 +/- 1.22E-05
	20	662.42	4.24E-02 +/- 3.38E-02	1.37E+00	2.06E-04 +/- 1.03E-05
	21	778.90	2.95E-02 +/- 2.37E-02	1.33E+00	1.76E-04 +/- 8.75E-06
	22	867.39	1.74E-02 +/- 1.23E-02	1.31E+00	1.60E-04 +/- 7.45E-06
	23	2236.00	1.00E+02 +/- 1.50E+00	1.19E+00	9.04E-05 +/- 2.29E-05

Segment: 11 Detector: DET01 (# 1) Position: 11

Elapsed Live Time: 113.83 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.253 +/- 0.0105
SE-75	264.65	0.000 +/- 0.0000	0.331 +/- 0.0074
SE-75	279.53	0.000 +/- 0.0000	0.341 +/- 0.0085
SE-75	400.65	0.000 +/- 0.0000	0.387 +/- 0.0110

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.76	5.67E-01 +/- 1.33E-01	2.36E+00	1.36E-03 +/- 8.94E-03
	2	49.93	5.65E+00 +/- 7.02E-01	1.90E+00	6.01E-04 +/- 1.61E-03
	3	60.19	9.37E+01 +/- 1.54E+00	1.81E+00	5.03E-04 +/- 8.46E-04
	4	99.72	3.34E+00 +/- 6.06E-01	1.67E+00	4.09E-04 +/- 1.01E-04
	5	103.82	3.01E+00 +/- 4.15E-01	1.66E+00	4.07E-04 +/- 7.78E-05
	6	111.80	1.14E+00 +/- 2.96E-01	1.64E+00	4.03E-04 +/- 4.44E-05
M	7	126.00	1.21E+00 +/- 1.45E-01	1.62E+00	4.00E-04 +/- 2.38E-05
m	8	130.01	5.84E+00 +/- 3.87E-01	1.62E+00	3.99E-04 +/- 2.64E-05
	9	152.68	7.81E-01 +/- 1.97E-01	1.59E+00	3.97E-04 +/- 4.46E-05
	10	204.39	5.38E-01 +/- 1.33E-01	1.53E+00	3.89E-04 +/- 4.46E-05
	11	208.72	1.37E+00 +/- 2.32E-01	1.53E+00	3.88E-04 +/- 4.33E-05
	12	300.10	2.54E-01 +/- 1.06E-01	1.45E+00	3.57E-04 +/- 1.80E-05
	13	311.90	3.24E-01 +/- 9.19E-02	1.45E+00	3.53E-04 +/- 1.69E-05
	14	333.53	8.78E-01 +/- 1.56E-01	1.43E+00	3.43E-04 +/- 1.63E-05
	15	345.93	3.50E-01 +/- 1.05E-01	1.43E+00	3.38E-04 +/- 1.66E-05
	16	375.69	1.39E+00 +/- 1.41E-01	1.41E+00	3.25E-04 +/- 1.79E-05
	17	393.80	3.74E-01 +/- 8.82E-02	1.41E+00	3.17E-04 +/- 1.87E-05
	18	413.70	1.37E+00 +/- 1.17E-01	1.40E+00	3.08E-04 +/- 1.94E-05
	19	452.24	9.40E-02 +/- 4.39E-02	1.38E+00	2.92E-04 +/- 2.00E-05
	20	511.24	2.04E-01 +/- 5.00E-02	1.36E+00	2.67E-04 +/- 1.91E-05
	21	662.42	1.10E-01 +/- 5.17E-02	1.31E+00	2.15E-04 +/- 1.30E-05
	22	2236.00	1.00E+02 +/- 1.50E+00	1.16E+00	5.79E-05 +/- 3.30E-05

Segment: 12 Detector: DET01 (# 1) Position: 12

Elapsed Live Time: 113.46 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.256 +/- 0.0110
SE-75	264.65	0.000 +/- 0.0000	0.341 +/- 0.0076
SE-75	279.53	0.000 +/- 0.0000	0.352 +/- 0.0087
SE-75	400.65	0.000 +/- 0.0000	0.390 +/- 0.0110

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.09	3.50E-01 +/- 1.10E-01	2.33E+00	2.45E-09 +/- 1.50E-08
	2	50.50	1.05E+01 +/- 9.82E-01	1.88E+00	2.31E-06 +/- 5.72E-06
	3	60.19	1.87E+02 +/- 2.67E+00	1.80E+00	1.30E-05 +/- 2.08E-05
	4	99.49	9.68E+00 +/- 5.95E-01	1.66E+00	2.34E-04 +/- 5.59E-05
	5	111.67	8.59E-01 +/- 3.47E-01	1.64E+00	3.25E-04 +/- 3.52E-05
M	6	126.01	2.55E+00 +/- 2.11E-01	1.62E+00	4.17E-04 +/- 2.46E-05
m	7	130.01	8.39E+00 +/- 4.43E-01	1.61E+00	4.38E-04 +/- 2.82E-05
	8	148.57	6.85E-01 +/- 2.34E-01	1.59E+00	5.08E-04 +/- 5.12E-05
	9	161.41	2.95E-01 +/- 1.56E-01	1.57E+00	5.35E-04 +/- 6.09E-05
	10	172.24	5.65E-01 +/- 1.76E-01	1.56E+00	5.45E-04 +/- 6.42E-05
	11	204.25	7.72E-01 +/- 1.95E-01	1.52E+00	5.35E-04 +/- 5.73E-05
	12	208.69	2.89E+00 +/- 2.98E-01	1.52E+00	5.31E-04 +/- 5.52E-05
	13	311.90	3.29E-01 +/- 1.05E-01	1.43E+00	3.88E-04 +/- 1.81E-05
M	14	333.50	5.67E-01 +/- 1.08E-01	1.43E+00	3.62E-04 +/- 1.72E-05
m	15	336.32	4.66E-01 +/- 9.56E-02	1.42E+00	3.59E-04 +/- 1.72E-05
	16	345.62	3.53E-01 +/- 1.12E-01	1.42E+00	3.49E-04 +/- 1.72E-05
	17	375.76	9.66E-01 +/- 1.77E-01	1.41E+00	3.19E-04 +/- 1.78E-05
	18	381.01	2.15E-01 +/- 9.00E-02	1.41E+00	3.14E-04 +/- 1.80E-05
	19	393.66	4.56E-01 +/- 9.27E-02	1.40E+00	3.03E-04 +/- 1.82E-05
	20	413.70	1.52E+00 +/- 1.27E-01	1.39E+00	2.87E-04 +/- 1.84E-05
	21	452.22	2.57E-01 +/- 6.01E-02	1.38E+00	2.62E-04 +/- 1.82E-05
	22	662.42	1.83E-01 +/- 4.00E-02	1.31E+00	1.82E-04 +/- 1.13E-05
	23	722.01	1.32E-01 +/- 3.96E-02	1.29E+00	1.70E-04 +/- 9.57E-06
	24	867.39	8.73E-03 +/- 8.73E-03	1.26E+00	1.48E-04 +/- 7.05E-06
	25	964.13	3.49E-02 +/- 1.75E-02	1.24E+00	1.38E-04 +/- 6.29E-06
	26	2236.00	1.00E+02 +/- 1.50E+00	1.16E+00	6.48E-05 +/- 3.54E-05

Segment: 13 Detector: DET01 (# 1) Position: 13

Elapsed Live Time: 113.25 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.248 +/- 0.0101
SE-75	264.65	0.000 +/- 0.0000	0.329 +/- 0.0074
SE-75	279.53	0.000 +/- 0.0000	0.329 +/- 0.0083
SE-75	400.65	0.000 +/- 0.0000	0.374 +/- 0.0107

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.88	2.82E-01 +/- 1.18E-01	2.38E+00	1.59E-08 +/- 1.05E-07
	2	50.10	5.90E+00 +/- 8.10E-01	1.91E+00	5.06E-06 +/- 1.35E-05
	3	60.20	2.38E+02 +/- 3.29E+00	1.82E+00	2.30E-05 +/- 3.88E-05
	4	74.25	4.93E-01 +/- 2.38E-01	1.75E+00	8.20E-05 +/- 7.38E-05
	5	99.50	9.48E+00 +/- 6.35E-01	1.68E+00	2.51E-04 +/- 6.28E-05
	6	111.64	6.08E-01 +/- 3.54E-01	1.66E+00	3.29E-04 +/- 3.67E-05
	7	115.26	1.09E+00 +/- 4.05E-01	1.65E+00	3.50E-04 +/- 3.00E-05
M	8	125.97	3.10E+00 +/- 2.33E-01	1.63E+00	4.03E-04 +/- 2.40E-05
m	9	130.01	8.37E+00 +/- 4.43E-01	1.63E+00	4.19E-04 +/- 2.78E-05
	10	148.57	1.95E+00 +/- 2.99E-01	1.60E+00	4.73E-04 +/- 5.02E-05
M	11	161.70	3.03E-01 +/- 1.15E-01	1.59E+00	4.93E-04 +/- 5.93E-05
m	12	165.28	4.27E-01 +/- 1.39E-01	1.58E+00	4.96E-04 +/- 6.07E-05
	13	208.67	4.04E+00 +/- 2.61E-01	1.53E+00	4.88E-04 +/- 5.34E-05
	14	268.51	2.47E-01 +/- 9.13E-02	1.48E+00	4.22E-04 +/- 2.66E-05
	15	311.90	2.15E-01 +/- 1.21E-01	1.46E+00	3.74E-04 +/- 1.79E-05
M	16	333.45	1.06E+00 +/- 1.47E-01	1.45E+00	3.53E-04 +/- 1.73E-05
m	17	336.51	4.49E-01 +/- 8.10E-02	1.45E+00	3.50E-04 +/- 1.73E-05
	18	345.69	6.07E-01 +/- 1.00E-01	1.45E+00	3.41E-04 +/- 1.75E-05
	19	369.09	5.03E-01 +/- 1.06E-01	1.43E+00	3.22E-04 +/- 1.83E-05
	20	375.79	1.41E+00 +/- 2.09E-01	1.43E+00	3.16E-04 +/- 1.85E-05
M	21	380.94	2.20E-01 +/- 7.78E-02	1.43E+00	3.12E-04 +/- 1.87E-05
m	22	383.59	1.98E-01 +/- 6.63E-02	1.43E+00	3.10E-04 +/- 1.88E-05
	23	393.66	5.54E-01 +/- 1.03E-01	1.42E+00	3.03E-04 +/- 1.90E-05
	24	413.70	1.45E+00 +/- 1.27E-01	1.41E+00	2.89E-04 +/- 1.94E-05
	25	452.45	2.22E-01 +/- 7.22E-02	1.40E+00	2.67E-04 +/- 1.94E-05
	26	662.42	1.67E-01 +/- 4.50E-02	1.32E+00	1.92E-04 +/- 1.21E-05
	27	722.01	1.22E-01 +/- 3.27E-02	1.30E+00	1.80E-04 +/- 1.01E-05
	28	1408.01	2.62E-02 +/- 1.51E-02	1.21E+00	1.05E-04 +/- 7.00E-06
	29	2236.00	1.00E+02 +/- 1.50E+00	1.17E+00	5.36E-05 +/- 3.03E-05

Segment: 14 Detector: DET01 (# 1) Position: 14

Elapsed Live Time: 113.54 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.322 +/- 0.0117
SE-75	264.65	0.000 +/- 0.0000	0.402 +/- 0.0089
SE-75	279.53	0.000 +/- 0.0000	0.409 +/- 0.0099
SE-75	400.65	0.000 +/- 0.0000	0.447 +/- 0.0123

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	50.17	8.71E+00 +/- 9.66E-01	1.71E+00	4.68E-05 +/- 1.15E-04
	2	60.20	1.78E+02 +/- 2.58E+00	1.64E+00	9.60E-05 +/- 1.50E-04
	3	99.50	6.19E+00 +/- 5.38E-01	1.53E+00	3.19E-04 +/- 7.49E-05
	4	111.69	6.86E-01 +/- 3.24E-01	1.52E+00	3.69E-04 +/- 3.93E-05
M	5	126.02	1.83E+00 +/- 1.88E-01	1.50E+00	4.12E-04 +/- 2.40E-05
m	6	130.03	6.28E+00 +/- 3.96E-01	1.50E+00	4.22E-04 +/- 2.68E-05
	7	148.57	5.59E-01 +/- 1.99E-01	1.48E+00	4.51E-04 +/- 4.47E-05
	8	204.23	4.22E-01 +/- 1.72E-01	1.43E+00	4.57E-04 +/- 4.85E-05
	9	208.71	2.29E+00 +/- 2.62E-01	1.43E+00	4.54E-04 +/- 4.69E-05
	10	256.12	1.70E-01 +/- 7.49E-02	1.39E+00	4.19E-04 +/- 2.89E-05
	11	311.90	2.69E-01 +/- 8.74E-02	1.37E+00	3.71E-04 +/- 1.72E-05
M	12	333.48	6.02E-01 +/- 1.12E-01	1.36E+00	3.53E-04 +/- 1.64E-05
m	13	336.23	3.64E-01 +/- 8.15E-02	1.36E+00	3.51E-04 +/- 1.64E-05
	14	345.82	4.37E-01 +/- 9.42E-02	1.35E+00	3.44E-04 +/- 1.65E-05
	15	375.80	8.21E-01 +/- 1.60E-01	1.34E+00	3.22E-04 +/- 1.72E-05
M	16	380.86	2.27E-01 +/- 6.74E-02	1.34E+00	3.19E-04 +/- 1.74E-05
m	17	383.61	1.97E-01 +/- 6.02E-02	1.34E+00	3.17E-04 +/- 1.75E-05
	18	393.65	4.40E-01 +/- 7.89E-02	1.34E+00	3.10E-04 +/- 1.77E-05
	19	413.70	1.26E+00 +/- 1.18E-01	1.33E+00	2.98E-04 +/- 1.80E-05
	20	423.14	8.14E-02 +/- 4.50E-02	1.33E+00	2.92E-04 +/- 1.81E-05
	21	662.42	1.42E-01 +/- 4.93E-02	1.26E+00	1.96E-04 +/- 1.14E-05
	22	722.01	4.55E-02 +/- 3.25E-02	1.25E+00	1.81E-04 +/- 9.66E-06
	23	964.13	8.71E-03 +/- 8.71E-03	1.21E+00	1.41E-04 +/- 6.33E-06
	24	1408.01	8.71E-03 +/- 8.71E-03	1.17E+00	1.05E-04 +/- 7.02E-06
	25	2236.00	1.00E+02 +/- 1.50E+00	1.14E+00	7.64E-05 +/- 4.15E-05

Segment: 15 Detector: DET01 (# 1) Position: 15

Elapsed Live Time: 113.97 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.754 +/- 0.0223
SE-75	264.65	0.000 +/- 0.0000	0.795 +/- 0.0171
SE-75	279.53	0.000 +/- 0.0000	0.799 +/- 0.0182
SE-75	400.65	0.000 +/- 0.0000	0.826 +/- 0.0207

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	49.67	4.61E+00 +/- 6.49E-01	1.16E+00	1.64E-06 +/- 4.33E-06
	2	60.20	8.41E+01 +/- 1.43E+00	1.14E+00	1.24E-05 +/- 2.03E-05
	3	99.47	2.55E+00 +/- 3.67E-01	1.12E+00	2.34E-04 +/- 5.73E-05
M	4	111.83	1.38E+00 +/- 1.98E-01	1.12E+00	3.23E-04 +/- 3.48E-05
m	5	115.50	1.28E+00 +/- 1.78E-01	1.12E+00	3.47E-04 +/- 2.87E-05
M	6	125.99	8.40E-01 +/- 1.21E-01	1.11E+00	4.05E-04 +/- 2.37E-05
m	7	130.05	2.92E+00 +/- 2.74E-01	1.11E+00	4.24E-04 +/- 2.76E-05
	8	208.68	1.27E+00 +/- 1.62E-01	1.10E+00	4.81E-04 +/- 5.23E-05
	9	311.90	9.76E-02 +/- 7.20E-02	1.08E+00	3.47E-04 +/- 1.64E-05
	10	345.81	3.13E-01 +/- 7.71E-02	1.08E+00	3.13E-04 +/- 1.53E-05
	11	375.84	5.61E-01 +/- 1.03E-01	1.08E+00	2.88E-04 +/- 1.59E-05
	12	400.66	1.18E-01 +/- 5.67E-02	1.07E+00	2.70E-04 +/- 1.63E-05
	13	413.70	4.48E-01 +/- 7.80E-02	1.07E+00	2.62E-04 +/- 1.65E-05
	14	452.59	6.95E-02 +/- 5.21E-02	1.07E+00	2.40E-04 +/- 1.65E-05
	15	662.42	5.68E-02 +/- 2.79E-02	1.06E+00	1.75E-04 +/- 1.08E-05
	16	778.90	8.66E-03 +/- 1.95E-02	1.05E+00	1.56E-04 +/- 8.00E-06
	17	2236.00	1.00E+02 +/- 1.50E+00	1.03E+00	3.18E-05 +/- 1.80E-05

Segment: 16 Detector: DET01 (# 1) Position: 16

Elapsed Live Time: 114.27 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.887 +/- 0.0252
SE-75	264.65	0.000 +/- 0.0000	0.904 +/- 0.0193
SE-75	279.53	0.000 +/- 0.0000	0.901 +/- 0.0203
SE-75	400.65	0.000 +/- 0.0000	0.907 +/- 0.0225

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	50.09	5.56E-01 +/- 2.94E-01	1.06E+00	3.06E-05 +/- 1.85E-05
2	60.20	2.02E+01 +/- 5.83E-01	1.06E+00	5.63E-05 +/- 2.41E-05
3	103.93	4.55E-01 +/- 1.63E-01	1.05E+00	1.80E-04 +/- 1.95E-05
4	129.29	6.50E-01 +/- 1.96E-01	1.05E+00	2.27E-04 +/- 1.46E-05

5	208.85	2.61E-01	+/-	1.04E-01	1.04E+00	2.62E-04	+/-	1.78E-05
6	413.70	1.33E-01	+/-	5.25E-02	1.04E+00	1.79E-04	+/-	8.85E-06
7	778.90	5.18E-02	+/-	2.11E-02	1.03E+00	9.86E-05	+/-	6.05E-06
8	867.39	4.74E-02	+/-	3.36E-02	1.03E+00	8.96E-05	+/-	5.22E-06
9	1333.54	1.29E-01	+/-	3.34E-02	1.02E+00	6.64E-05	+/-	4.06E-06
10	2236.00	1.00E+02	+/-	1.49E+00	1.02E+00	6.28E-05	+/-	1.87E-05

Summed Spectrum

Peak Locate Report

Sample ID: LL85234292-R
Peak Locate Performed on: 4-30-08 3:19:48 PM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192
Peak Search Sensitivity: 5.00

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
1	64.91	0.2358	32.12	7.10
2	100.65	0.1730	49.99	12.25
3	121.06	0.0417	60.20	249.85
4	199.76	0.0926	99.55	48.03
5	208.34	0.1070	103.84	36.86
6	224.08	0.1490	111.70	19.09
7	231.31	0.1840	115.32	11.52
8	260.79	0.0892	130.06	54.20
9	307.60	0.1869	153.47	12.11
10	373.65	0.1667	186.49	14.33
11	409.15	0.1754	204.24	14.25
12	418.07	0.1071	208.70	36.74
13	625.98	0.1930	312.65	11.21
14	667.45	0.1644	333.45	14.32
15	673.77	0.2507	336.34	7.49
16	692.21	0.1612	345.77	15.32
17	738.57	0.2294	368.95	6.34
18	752.21	0.1199	375.77	27.16
19	762.15	0.2310	380.92	8.53
20	767.94	0.2669	383.50	6.52
21	787.96	0.1796	393.65	12.27
22	829.71	0.1253	414.52	23.14
23	905.14	0.2195	452.23	8.37
24	1023.99	0.2096	511.66	6.39
25	1327.26	0.2568	663.29	5.43
26	2667.80	0.2229	1333.57	6.48
27	4473.09	0.0262	2236.21	414.14

Errors quoted at 1.000 sigma

Summed Spectrum

Peak Analysis Report

Sample ID: LL85234292-R
Peak Analysis Performed on: 4-30-08 3:19:48 PM
Peak Analysis From Channel: 40
Peak Analysis To Channel: 8192

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	1	61-	69	64.91	32.12	4.04E+02	42.75	5.64E+02
	2	94-	103	100.65	49.99	3.26E+03	199.80	1.51E+04
	3	114-	127	121.06	60.20	1.10E+05	401.20	1.85E+04
	4	194-	206	199.76	99.55	1.60E+03	213.92	1.62E+04
	5	206-	215	208.34	103.84	3.70E+03	133.00	4.98E+03
	6	217-	227	224.08	111.70	7.32E+02	103.69	4.12E+03
	7	227-	238	231.31	115.32	1.92E+02	119.44	5.15E+03
	8	256-	267	260.79	130.06	3.53E+03	118.17	3.88E+03
	9	304-	314	307.60	153.47	1.76E+02	70.50	1.97E+03
	10	369-	377	373.65	186.49	4.97E+02	54.12	1.14E+03
	11	401-	412	409.15	204.24	3.68E+02	61.66	1.37E+03
	12	412-	425	418.07	208.70	1.58E+03	85.49	2.01E+03
	13	621-	631	625.98	312.65	2.61E+02	33.85	3.69E+02
M	14	663-	681	667.57	333.45	5.12E+02	40.75	3.31E+02
m	15	663-	681	673.35	336.34	2.36E+02	24.64	3.40E+02
	16	689-	699	692.21	345.77	4.01E+02	34.59	3.25E+02
	17	734-	742	738.57	368.95	1.90E+02	25.92	2.26E+02
	18	749-	759	752.21	375.77	8.73E+02	50.55	6.00E+02
M	19	759-	775	762.50	380.92	1.90E+02	24.28	2.26E+02
m	20	759-	775	767.66	383.50	1.66E+02	21.54	1.95E+02
	21	783-	795	787.96	393.65	3.51E+02	30.61	2.21E+02
	22	825-	837	829.71	414.52	9.62E+02	39.06	2.08E+02
	23	901-	912	905.14	452.23	1.10E+02	21.21	1.31E+02
	24	1016-	1031	1023.99	511.66	3.91E+02	28.04	1.32E+02
	25	1323-	1335	1327.26	663.29	8.40E+01	16.25	6.80E+01
	26	2658-	2677	2667.80	1333.57	8.82E+01	12.54	1.98E+01
	27	4462-	4479	4473.09	2236.21	1.85E+05	430.42	1.05E+02

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Summed Spectrum

Nuclide Identification Report

Sample ID: LL85234292-R
Nuclide Library Used: C:\WAS\NLIB\LLNL.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (uCi/)	Activity Uncertainty
Pulser	0.997	2236.00*	100.00	7.840E+02	1.780E+02
U-235	0.958	185.71*	57.20	7.613E-01	8.471E-02
Np-237	0.729	300.10	6.63		
		311.90*	38.60	6.917E-01	8.970E-02
Pu-238	0.957	152.68*	0.00	1.753E+04	7.049E+03
Pu-239	0.953	413.70*	0.00	8.018E+04	3.579E+03
Pu-239A	0.959	129.29*	0.01	6.003E+04	2.456E+03
Am-241	0.947	662.42*	0.00	3.746E+04	7.255E+03

* = Energy line found in the spectrum.
Energy Tolerance : 1.500 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 4-30-08 3:19:48 PM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192

	Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
	1	32.12	3.5083E+00	10.58
	2	49.99	2.8276E+01	6.14
	3	60.20	9.5164E+02	0.45
	4	99.55	1.3926E+01	13.34
	5	103.84	3.2139E+01	3.60
	6	111.70	6.3562E+00	14.16
	7	115.32	1.6646E+00	62.29
	11	204.24	3.1953E+00	16.75
	12	208.70	1.3676E+01	5.43
M	14	333.45	4.4491E+00	7.96
m	15	336.34	2.0479E+00	10.45
	16	345.77	3.4777E+00	8.64
	17	368.95	1.6464E+00	13.67
	18	375.77	7.5802E+00	5.79
M	19	380.92	1.6518E+00	12.76
m	20	383.50	1.4434E+00	12.96
	21	393.65	3.0485E+00	8.72
	23	452.23	9.5179E-01	19.35
	24	511.66	3.3966E+00	7.17
	26	1333.57	7.6609E-01	14.21

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Combined Segment NID

NID Results Combiner Mode: Sum Activities

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		8.49E+02	+/-	1.25E+02	2.01E-02	+/-	2.97E-03
SE-75	<	5.76E-02	+/-	3.62E-03	< 1.37E-06	+/-	8.58E-08
EU-152x	<	2.10E-01	+/-	1.55E-02	< 4.98E-06	+/-	3.67E-07
U-233	<	3.97E+03	+/-	3.17E+02	< 9.42E-02	+/-	7.51E-03
U-235		6.95E-01	+/-	6.32E-02	1.65E-05	+/-	1.50E-06
Np-237		5.63E-01	+/-	7.51E-02	1.33E-05	+/-	1.78E-06
Pu-238		3.06E+04	+/-	4.42E+03	7.24E-01	+/-	1.05E-01
U-238		2.37E+00	+/-	1.13E+00	5.61E-05	+/-	2.68E-05
Pu-239		7.27E+04	+/-	3.24E+03	1.72E+00	+/-	7.68E-02
Pu-239A		7.35E+04	+/-	2.51E+03	1.74E+00	+/-	5.94E-02
Am-241		3.16E+04	+/-	4.65E+03	7.48E-01	+/-	1.10E-01
Am-241D		3.37E+04	+/-	6.61E+03	8.00E-01	+/-	1.57E-01
Pu-241		1.53E+05	+/-	2.33E+04	3.62E+00	+/-	5.51E-01

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
U-235	3.22E-01	+/-	2.93E-02
Np-237	7.99E-04	+/-	1.07E-04
Pu-238	1.78E-03	+/-	2.58E-04
U-238	7.06E+00	+/-	3.37E+00
Pu-239	1.17E+00	+/-	5.22E-02
Pu-239A	1.18E+00	+/-	4.03E-02
Am-241	9.21E-03	+/-	1.36E-03
Pu-241	1.48E-03	+/-	2.25E-04

Summed Spectrum

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		7.84E+02	+/-	1.78E+02	1.86E-02	+/-	4.22E-03
SE-75	<	2.76E-01	+/-	2.49E-03	< 6.54E-06	+/-	5.89E-08
EU-152x	<	4.79E-01	+/-	8.60E-03	< 1.13E-05	+/-	2.04E-07
U-233	<	1.93E+04	+/-	4.11E+02	< 4.57E-01	+/-	9.74E-03
U-235		7.61E-01	+/-	8.47E-02	1.80E-05	+/-	2.01E-06
Np-237		6.92E-01	+/-	8.97E-02	1.64E-05	+/-	2.13E-06
Pu-238		1.75E+04	+/-	7.05E+03	4.15E-01	+/-	1.67E-01
U-238	<	1.53E+01	+/-	2.42E-01	< 3.62E-04	+/-	5.74E-06
Pu-239		8.02E+04	+/-	3.58E+03	1.90E+00	+/-	8.48E-02
Pu-239A		6.00E+04	+/-	2.46E+03	1.42E+00	+/-	5.82E-02
Am-241		3.75E+04	+/-	7.25E+03	8.88E-01	+/-	1.72E-01
Am-241D	<	6.41E+04	+/-	6.00E+02	< 1.52E+00	+/-	1.42E-02
Pu-241	<	1.77E+05	+/-	3.29E+03	< 4.20E+00	+/-	7.81E-02

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
U-235	3.52E-01	+/-	3.92E-02
Np-237	9.82E-04	+/-	1.27E-04
Pu-238	1.02E-03	+/-	4.12E-04
Pu-239	1.29E+00	+/-	5.76E-02
Pu-239A	9.67E-01	+/-	3.95E-02
Am-241	1.09E-02	+/-	2.12E-03

Final Non-Uniformity Results

Source Longitudinal Ratio:	0.000	+/-	0.0000
Matrix Longitudinal Ratio:	0.859	+/-	0.0903
Source Vertical Ratio:	0.000	+/-	0.0000
Matrix Vertical Ratio:	0.852	+/-	0.0232

NUDS could not find the transmission peak in one radial segment.
NUDS could not find the source peak in any radial segment.

Radioassay Data Sheet — Wed Apr 30 03:43:10 2008
Procedure ID & Rev: WCP-55 03/07/2002 — Software Version: GWAS v2.3bGEN

Drum ID	: LL85901383	Gross Weight (kg)	: 97.0
Sequence Number	: 2649	Fill Height (%)	: 100.0
Assay Date	: 04/01/08 15:02:36	Density (g/cc)	: 0.32
		Net Weight (kg)	: 66.90
Batch Number	:	Waste Matrix Code	:
Site ID	:	TRUCON	:

	Errors at 1.00 Sigma		
TRU Alpha Activity Concentration:	5.52e-05	+/- 7.63e-06	Ci/g
Total Pu-239 Equiv Activity:	3.59e+00	+/- 4.84e-01	Ci
Total Pu-239 Fissile Gram Equiv:	2.26e+01	+/- 5.10e+00	g
Decay Heat:	1.20e-01	+/- 1.67e-02	W
Total Pu Mass:	2.42e+01	+/- 5.11e+00	g
TMU:	22.62%		
Waste Classification:	TRU		

Isotopics Data

Measured Isotope	MGA Report Weight %	MGA Report % Err (1.00 Sigma)
Pu-238	4.15e-01	1.26e+00
Pu-239	9.32e+01	1.53e-01
Pu-240	6.18e+00	2.27e+00
Pu-241	1.19e-01	2.51e+00
Pu-242	3.60e-02	1.00e+01
Am-241	6.66e-01	1.22e+00
Am-243	0.00e+00	0.00e+00
Np-237	0.00e+00	0.00e+00
U-235	0.00e+00	0.00e+00

Activity Errors

Isotope	Isotope Mass (g)	1.00 Sigma Error/Isotope Mass (g)	Alpha Activity/ Isotope (Ci)	1.00 Sigma Error/Isotope (Ci)	MDA (g)
Pu-238	1.00e-01	2.27e-02	1.72e+00	3.89e-01	8.04e-04
Pu-239	2.25e+01	5.10e+00	1.40e+00	3.16e-01	1.46e-01
Pu-240	1.49e+00	3.40e-01	3.39e-01	7.71e-02	0.00e+00
Pu-241	2.87e-02	6.54e-03	2.97e+00	6.76e-01	2.08e-03
Pu-242	8.71e-03	2.15e-03	3.42e-05	8.46e-06	0.00e+00
Am-241	6.92e-02	1.63e-02	2.37e-01	5.57e-02	6.66e-03
Am-243	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
Np-237	2.48e-03	6.29e-04	1.75e-06	4.43e-07	7.13e-04
*U-235	<LLD	0.00e+00	0.00e+00	0.00e+00	8.70e-02
*U-238	<LLD	0.00e+00	0.00e+00	0.00e+00	1.80e+01
*U-233	<LLD	0.00e+00	0.00e+00	0.00e+00	7.27e-01
CS-137	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
U-234	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
SR-90	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00

* = Activity/Mass below detectable limit.

Operator Signature — Date

Robert J Hazlett Jr — 4-30-08

Reviewer Signature — Date

AUTOMATED INDEPENDENT TECHNICAL REVIEW BASED ON WCP-55 03/07/2002

Software Version: GWAS v2.3bGEN
Counter Number: SGS
Data Review for Container: LL85901383
Item Description Code: \Count Type: DEBRIS
Sequence Number: 2649
Assayed on: 04/01/08 15:02:36
Report Generated: 04/30/08 15:42:55
AITR Version 1.4

Section 1 MGA Analysis Review Using MGA Isotopics

REVIEW Pu-240 Wt Pct -2 Sigma error <5.90> greater than <5.87> Review MGA Results ok
Pu-240 Wt Pct error <2.27> is within limits
Pu-238 Wt Pct error <1.26> is within limits
QFIT <1.00> is within limits
REVIEW MGAERR13: Efficiency curvature boundary reached ok

Section 2 - CONTAINER DENSITY REVIEW

Container density <0.322> g/cc is within UPPER and LOWER limits

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Section 3 - SELF-ABSORPTION REVIEW

REVIEW Pu-239/Pu-239a ratio <3.33e+00> > <2.50e+00> ok

Section 4 - PULSER REVIEW

DEAD TIME percentage <1.66> is acceptable in Segment 1
Pulser value <0.99> is within range in Segment 1
DEAD TIME percentage <1.39> is acceptable in Segment 2
Pulser value <0.99> is within range in Segment 2
DEAD TIME percentage <1.22> is acceptable in Segment 3
Pulser value <0.99> is within range in Segment 3
DEAD TIME percentage <1.28> is acceptable in Segment 4
Pulser value <0.99> is within range in Segment 4
DEAD TIME percentage <0.99> is acceptable in Segment 5
Pulser value <0.99> is within range in Segment 5
DEAD TIME percentage <0.87> is acceptable in Segment 6
Pulser value <0.99> is within range in Segment 6
DEAD TIME percentage <1.29> is acceptable in Segment 7
Pulser value <1.00> is within range in Segment 7
DEAD TIME percentage <2.03> is acceptable in Segment 8
Pulser value <0.99> is within range in Segment 8
DEAD TIME percentage <2.65> is acceptable in Segment 9
Pulser value <1.00> is within range in Segment 9
DEAD TIME percentage <1.87> is acceptable in Segment 10
Pulser value <0.99> is within range in Segment 10
DEAD TIME percentage <1.28> is acceptable in Segment 11
Pulser value <1.00> is within range in Segment 11
DEAD TIME percentage <1.23> is acceptable in Segment 12
Pulser value <0.99> is within range in Segment 12
DEAD TIME percentage <1.20> is acceptable in Segment 13
Pulser value <1.00> is within range in Segment 13
DEAD TIME percentage <0.97> is acceptable in Segment 14
Pulser value <0.99> is within range in Segment 14
DEAD TIME percentage <0.67> is acceptable in Segment 15
Pulser value <0.99> is within range in Segment 15
DEAD TIME percentage <0.57> is acceptable in Segment 16
Pulser value <0.99> is within range in Segment 16

Section 5 - TRANSMISSION REVIEW

Transmission results are acceptable in Segment 1
Transmission results are acceptable in Segment 2
Transmission results are acceptable in Segment 3
Transmission results are acceptable in Segment 4
REVIEW Low Transmission Line <136.000000> < <0.001> found in Segment 5 ok
Transmission results are acceptable in Segment 6
Transmission results are acceptable in Segment 7

Transmission results are acceptable in Segment 8
Transmission results are acceptable in Segment 9
Transmission results are acceptable in Segment 10
Transmission results are acceptable in Segment 11
Transmission results are acceptable in Segment 12
Transmission results are acceptable in Segment 13
Transmission results are acceptable in Segment 14
Transmission results are acceptable in Segment 15
Transmission results are acceptable in Segment 16

Section 6 - REDUCED CHI SQUARED FIT REVIEW

All energy peaks within <3.00e+00> RCHISQ limit

Section 7 - FGE MASS REVIEW

FGE Mass <27.74> is within limits

Section 8 - PERCENT FULL REVIEW

Percent Full <100.0> is above lower limit <30.0>

Section 9 - IDC COUNT TYPE REVIEW

REVIEW IDC is not available

Section 10 - AM-241 & NP-237 INTERFERENCE REVIEW

Am-241 ratio <325.35> is above lower limit <200.00>
Np-237 ratio <9074.84> is above lower limit <125.00>

Section 11 - PU-239 CALIBRATION RANGE REVIEW

Pu-239 <22.53> is within limits

Section 12 - CS-137 INTERFERENCE REVIEW

Am-241D > Am-241A: Calculation not performed OK. Checked.

Independent Reviewer: Robert J Hazlett Jr Date: 4-30-08

INDEPENDENT TECHNICAL REVIEW COMMENT SHEET

Counter Number: SGS
Data Review for Container: LL85901383
Item Description Code:
Sequence Number: 2649
Assayed on: 04/01/08 15:02:36
AITR Version 1.4

Comments	Disposition
SECTION 1 - MGA	
Pu-240 Wt Pct -2 Sigma error is greater than upper limit.	OK
MGAERR13	OK
SECTION 3 - SELF-ABSORPTION	
Pu-239/Pu-239a ratio is greater than upper limit.	OK
SECTION 5 - TRANSMISSION	
Low Transmission Line 136.0 less than 0.001 found in Segment 5	OK
SECTION 9 - IDC COUNT TYPE	
IDC is not available.	N/A

Technical Reviewer: Robert J. Hazlitt Jr. Date: 4-30-08

****
***** M G A R E P O R T *****
****

Report generated on: 4-30-08 3:39:57 PM

MGA version: MGA V9.5 CI

Spectrum ID: 11202649.CNF Sens : 30.0% LT: 55.0 Mins DT: 1.57
Measurement date: 4-01-08 Declared date: 4-01-08

Sample ID: LL85901383 Detector: Total counts: 1.661E+06

Pu g/cm2 = 0.0500 Cd g/cm2 = 1.8000 FWHM at 122 keV = 623 eV
QFIT = 1.00 FWHM at 208 keV = 796 eV
NQFIT = 1.00

Isotope	Relative to Pu-239	%* Err	% Err	Relative to Pu-241	%* Err	Isotope analysis at Meas. date % weight	Meas. date %Err	Decl. date % weight	Decl. date %Err
Pu-238	0.004450	1.3	0.9	3.4891	2.3	0.41497	1.26	0.41497	1.26
Pu-239	1.000000	0.0	1.0	784.0167	2.5	93.24671	0.15	93.24671	0.15
Pu-240	0.066312	2.4	2.2	51.9894	3.1	6.18334	2.27	6.18334	2.27
Pu-241	0.001275	2.5	2.3	1.0000	0.0	0.11893	2.51	0.11893	2.51
Pu-242	(New alg.)			0.3030	(10)	0.03604	(10)	0.03604	(10)
Am-241	0.007144	1.3	0.7	5.6009	2.4	0.66614	1.22	0.66614	1.22

Pu-240 effective (meas. date) = 7.290 +/- 2.17%
Am-241 separated about 38.934 +/- 0.321 years ago
Am/Pu-241 weight ratio = 5.60093 +/- 2.39%

Messages :

Lead x-rays detected.
Efficiency curvature boundary reached.
17 MGA parameter(s) defaulted, starting from parameter 8.

Notes : * = Error in ratio
1.000 sigma errors

Gamma Waste Assay

Sample Information

File Name: C:\WAS\DATA\2700\11102649.S11
Sample ID: LL85901383 Count Sequence Number: 2649
Assay Start: 4-01-08 3:02:38 PM
Description 1:
Description 2:
Location:
Comment:
Waste Type:
Weight: Gross: 97000.0 g Net: 66900.0 g
Density: 0.322 g /ml

Container Type: 55 Gal Galv 66.3
Container: Volume: 208000. ml Full: 100.0 %

System Configuration

Counter ID Number: SGS
Arrangement Description: SGS
Segments: Number: 16 Offset: 0
Scanning Platform: Start: 934 mm Delta: -51 mm
Count Type: 55 Gal Galv 66.3
Collimator/Geometry Setting: 0
Transmission Mode: Two pass
Transmission Source: 0

Errors quoted at 1.000 sigma
Reference Source Date: Reference Source Rate: 1.00E+02 cps
Geometric Correction Factor(SWCONTGCF): 0.760
Date of efficiency calibration approval: 8-27-2003 2:05:34 PM
Mu Factors response file: Lucite response
Transmission Calib. Time: 12-10-2007 3:06:26 PM 26364

Reviewed by: Robert J. Haslett Jr Date: 4-30-08

Segment Results

Segment: 1 Detector: DET01 (# 1) Position: 1

Elapsed Live Time: 113.09 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.068 +/- 0.0067
SE-75	264.65	0.000 +/- 0.0000	0.089 +/- 0.0025
SE-75	279.53	0.000 +/- 0.0000	0.094 +/- 0.0035
SE-75	400.65	0.000 +/- 0.0000	0.109 +/- 0.0051

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.84	1.55E+00 +/- 2.23E-01	4.10E+00	4.07E-10 +/- 2.92E-09
	2	49.98	5.11E+00 +/- 7.17E-01	3.02E+00	8.30E-07 +/- 2.42E-06
	3	60.19	7.71E+01 +/- 1.38E+00	2.81E+00	6.36E-06 +/- 1.17E-05
	4	99.49	8.11E+00 +/- 6.37E-01	2.48E+00	1.52E-04 +/- 4.16E-05
	5	116.59	2.50E+00 +/- 5.86E-01	2.41E+00	2.44E-04 +/- 2.10E-05
M	6	126.00	2.07E+00 +/- 2.51E-01	2.38E+00	2.87E-04 +/- 1.88E-05
m	7	130.02	5.73E+00 +/- 4.45E-01	2.37E+00	3.04E-04 +/- 2.20E-05
	8	208.74	3.68E+00 +/- 4.02E-01	2.25E+00	3.80E-04 +/- 4.53E-05
	9	300.10	8.11E-01 +/- 2.86E-01	2.14E+00	2.87E-04 +/- 1.52E-05
	10	311.90	7.96E-01 +/- 2.85E-01	2.13E+00	2.76E-04 +/- 1.41E-05
	11	321.84	1.05E+00 +/- 2.29E-01	2.12E+00	2.67E-04 +/- 1.36E-05
M	12	333.51	3.25E+00 +/- 2.84E-01	2.11E+00	2.57E-04 +/- 1.33E-05
m	13	336.32	1.39E+00 +/- 1.62E-01	2.11E+00	2.55E-04 +/- 1.33E-05
	14	345.72	2.50E+00 +/- 2.71E-01	2.10E+00	2.47E-04 +/- 1.34E-05
	15	375.81	5.87E+00 +/- 4.28E-01	2.08E+00	2.25E-04 +/- 1.40E-05
M	16	380.90	1.67E+00 +/- 1.92E-01	2.08E+00	2.22E-04 +/- 1.41E-05
m	17	383.58	1.39E+00 +/- 1.65E-01	2.08E+00	2.20E-04 +/- 1.41E-05
	18	393.62	3.04E+00 +/- 2.41E-01	2.07E+00	2.14E-04 +/- 1.43E-05
	19	413.70	9.58E+00 +/- 3.41E-01	2.05E+00	2.03E-04 +/- 1.44E-05
	20	423.34	5.40E-01 +/- 1.04E-01	2.04E+00	1.98E-04 +/- 1.45E-05
	21	452.34	1.08E+00 +/- 1.20E-01	2.00E+00	1.84E-04 +/- 1.43E-05
	22	619.95	1.32E-01 +/- 6.26E-02	1.83E+00	1.34E-04 +/- 9.99E-06
	23	662.42	3.34E-01 +/- 8.38E-02	1.80E+00	1.27E-04 +/- 8.85E-06
	24	722.01	1.63E-01 +/- 6.35E-02	1.76E+00	1.18E-04 +/- 7.51E-06
	25	867.39	1.74E-02 +/- 1.23E-02	1.67E+00	1.02E-04 +/- 5.64E-06
	26	1408.01	2.62E-02 +/- 1.51E-02	1.50E+00	6.92E-05 +/- 5.19E-06
	27	2236.00	1.00E+02 +/- 1.50E+00	1.40E+00	3.40E-05 +/- 2.15E-05

Segment: 2 Detector: DET01 (# 1) Position: 2

Elapsed Live Time: 113.40 sec Elapsed Real Time: 115.00 sec

Analysis Warnings:
Minimum transmission used.

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.005 +/- 0.0025
SE-75	264.65	0.000 +/- 0.0000	0.007 +/- 0.0007
SE-75	279.53	0.000 +/- 0.0000	0.007 +/- 0.0014
SE-75	400.65	0.000 +/- 0.0000	0.015 +/- 0.0019

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.99	9.49E-01 +/- 2.05E-01	4.10E+00	1.87E-05 +/- 1.16E-04
	2	49.92	5.95E+00 +/- 6.98E-01	4.10E+00	8.30E-05 +/- 2.13E-04
	3	60.19	6.16E+01 +/- 1.19E+00	4.10E+00	1.33E-04 +/- 2.14E-04
	4	99.60	4.74E+00 +/- 5.66E-01	4.10E+00	3.10E-04 +/- 7.43E-05
M	5	126.02	1.65E+00 +/- 2.34E-01	4.10E+00	3.82E-04 +/- 2.26E-05
m	6	130.02	3.35E+00 +/- 3.54E-01	4.10E+00	3.89E-04 +/- 2.53E-05
	7	148.57	1.02E+00 +/- 4.60E-01	4.05E+00	4.14E-04 +/- 4.21E-05
	8	208.69	1.65E+00 +/- 3.09E-01	3.91E+00	4.25E-04 +/- 4.49E-05
M	9	333.54	1.71E+00 +/- 2.20E-01	3.60E+00	3.42E-04 +/- 1.64E-05
m	10	336.48	7.11E-01 +/- 1.29E-01	3.58E+00	3.40E-04 +/- 1.64E-05
	11	345.69	1.37E+00 +/- 2.27E-01	3.54E+00	3.34E-04 +/- 1.66E-05
	12	375.74	4.73E+00 +/- 2.66E-01	3.41E+00	3.13E-04 +/- 1.75E-05
	13	393.70	1.57E+00 +/- 1.88E-01	3.34E+00	3.01E-04 +/- 1.81E-05
	14	413.70	4.70E+00 +/- 2.26E-01	3.27E+00	2.89E-04 +/- 1.85E-05
M	15	423.26	3.66E-01 +/- 9.66E-02	3.24E+00	2.83E-04 +/- 1.86E-05
m	16	427.16	9.86E-02 +/- 4.22E-02	3.23E+00	2.81E-04 +/- 1.86E-05
	17	452.18	6.56E-01 +/- 1.02E-01	3.16E+00	2.67E-04 +/- 1.85E-05
	18	619.65	6.33E-02 +/- 4.06E-02	2.78E+00	1.98E-04 +/- 1.31E-05
	19	662.42	3.41E-01 +/- 8.13E-02	2.70E+00	1.86E-04 +/- 1.15E-05
	20	722.01	1.98E-01 +/- 6.00E-02	2.61E+00	1.71E-04 +/- 9.64E-06
	21	2236.00	1.00E+02 +/- 1.50E+00	1.82E+00	9.73E-05 +/- 5.41E-05

Segment: 3 Detector: DET01 (# 1) Position: 3

Elapsed Live Time: 113.60 sec Elapsed Real Time: 115.00 sec

Analysis Warnings:
Minimum transmission used.

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.005 +/- 0.0025
SE-75	264.65	0.000 +/- 0.0000	0.006 +/- 0.0007
SE-75	279.53	0.000 +/- 0.0000	0.006 +/- 0.0013
SE-75	400.65	0.000 +/- 0.0000	0.012 +/- 0.0017

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.90	5.49E-01 +/- 1.56E-01	4.10E+00	3.35E-06 +/- 3.22E-06
	2	49.36	2.00E+00 +/- 5.40E-01	4.10E+00	3.67E-05 +/- 1.82E-05
	3	60.19	3.34E+01 +/- 8.28E-01	4.10E+00	8.08E-05 +/- 2.79E-05
	4	99.54	4.59E+00 +/- 5.08E-01	4.10E+00	2.98E-04 +/- 3.03E-05
	5	111.83	8.04E-01 +/- 3.88E-01	4.10E+00	3.55E-04 +/- 2.60E-05
M	6	125.97	6.34E-01 +/- 1.71E-01	4.10E+00	4.08E-04 +/- 2.26E-05
m	7	130.01	3.32E+00 +/- 3.70E-01	4.10E+00	4.20E-04 +/- 2.22E-05
	8	208.74	1.41E+00 +/- 3.25E-01	3.96E+00	4.92E-04 +/- 2.59E-05
	9	244.70	3.34E-01 +/- 2.09E-01	3.95E+00	4.68E-04 +/- 2.38E-05
M	10	333.49	1.48E+00 +/- 2.15E-01	3.69E+00	3.84E-04 +/- 1.63E-05
m	11	336.03	4.37E-01 +/- 1.06E-01	3.68E+00	3.81E-04 +/- 1.62E-05
M	12	342.13	2.69E-01 +/- 8.91E-02	3.66E+00	3.76E-04 +/- 1.58E-05
m	13	345.73	1.73E+00 +/- 2.22E-01	3.65E+00	3.72E-04 +/- 1.56E-05
	14	375.81	3.35E+00 +/- 3.08E-01	3.54E+00	3.46E-04 +/- 1.41E-05
M	15	380.81	7.24E-01 +/- 1.34E-01	3.52E+00	3.42E-04 +/- 1.38E-05
m	16	383.58	7.09E-01 +/- 1.27E-01	3.51E+00	3.40E-04 +/- 1.37E-05
	17	393.55	1.57E+00 +/- 1.51E-01	3.48E+00	3.31E-04 +/- 1.34E-05
	18	413.70	4.79E+00 +/- 2.26E-01	3.41E+00	3.16E-04 +/- 1.28E-05
	19	423.52	5.08E-01 +/- 1.10E-01	3.38E+00	3.09E-04 +/- 1.26E-05
	20	443.98	8.57E-02 +/- 6.96E-02	3.32E+00	2.95E-04 +/- 1.21E-05
	21	452.30	6.92E-01 +/- 1.08E-01	3.29E+00	2.89E-04 +/- 1.20E-05
	22	662.42	3.25E-01 +/- 6.72E-02	2.81E+00	1.95E-04 +/- 9.62E-06
	23	722.01	2.51E-01 +/- 5.67E-02	2.71E+00	1.79E-04 +/- 8.87E-06
	24	1085.91	1.74E-02 +/- 1.23E-02	2.29E+00	1.28E-04 +/- 4.75E-06
	25	2236.00	1.00E+02 +/- 1.50E+00	1.87E+00	1.32E-04 +/- 3.24E-05

Segment: 4 Detector: DET01 (# 1) Position: 4

Elapsed Live Time: 113.53 sec Elapsed Real Time: 115.00 sec

Analysis Warnings:
Minimum transmission used.

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.005 +/- 0.0025
SE-75	264.65	0.000 +/- 0.0000	0.023 +/- 0.0011
SE-75	279.53	0.000 +/- 0.0000	0.024 +/- 0.0018
SE-75	400.65	0.000 +/- 0.0000	0.037 +/- 0.0029

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.24	1.07E+00 +/- 2.12E-01	4.10E+00	1.28E-07 +/- 7.73E-07
	2	60.20	2.72E+01 +/- 7.53E-01	4.10E+00	3.63E-05 +/- 5.77E-05
	3	99.49	4.62E+00 +/- 4.95E-01	4.10E+00	2.65E-04 +/- 6.31E-05
	4	116.32	1.77E+00 +/- 5.10E-01	4.10E+00	3.58E-04 +/- 2.82E-05
	5	129.29	3.17E+00 +/- 3.65E-01	4.10E+00	4.12E-04 +/- 2.61E-05
	6	148.57	1.41E+00 +/- 4.29E-01	3.95E+00	4.63E-04 +/- 4.66E-05
	7	196.96	6.90E-01 +/- 2.86E-01	3.50E+00	4.87E-04 +/- 5.46E-05
	8	208.80	1.57E+00 +/- 3.05E-01	3.41E+00	4.80E-04 +/- 5.04E-05
M	9	333.45	1.98E+00 +/- 2.25E-01	2.87E+00	3.57E-04 +/- 1.65E-05
m	10	336.21	6.52E-01 +/- 1.13E-01	2.87E+00	3.54E-04 +/- 1.65E-05
M	11	342.09	4.44E-01 +/- 9.29E-02	2.85E+00	3.49E-04 +/- 1.65E-05
m	12	345.79	2.18E+00 +/- 2.36E-01	2.84E+00	3.46E-04 +/- 1.65E-05
	13	368.93	6.87E-01 +/- 1.51E-01	2.79E+00	3.26E-04 +/- 1.70E-05
	14	375.80	3.94E+00 +/- 3.58E-01	2.78E+00	3.21E-04 +/- 1.71E-05
M	15	380.93	9.49E-01 +/- 1.51E-01	2.76E+00	3.17E-04 +/- 1.72E-05
m	16	383.46	7.28E-01 +/- 1.24E-01	2.76E+00	3.15E-04 +/- 1.73E-05
	17	393.63	2.34E+00 +/- 1.82E-01	2.74E+00	3.07E-04 +/- 1.75E-05
	18	413.70	6.12E+00 +/- 2.59E-01	2.69E+00	2.94E-04 +/- 1.78E-05
	19	423.38	5.13E-01 +/- 9.84E-02	2.67E+00	2.87E-04 +/- 1.79E-05
	20	452.23	6.79E-01 +/- 1.04E-01	2.61E+00	2.70E-04 +/- 1.78E-05
	21	662.42	2.21E-01 +/- 6.17E-02	2.28E+00	1.90E-04 +/- 1.13E-05
	22	722.01	1.58E-01 +/- 5.30E-02	2.21E+00	1.77E-04 +/- 9.59E-06
	23	867.39	1.04E-01 +/- 3.01E-02	2.07E+00	1.52E-04 +/- 7.25E-06
	24	2236.00	1.00E+02 +/- 1.50E+00	1.63E+00	7.00E-05 +/- 3.84E-05

Segment: 5 Detector: DET01 (# 1) Position: 5

Elapsed Live Time: 113.86 sec Elapsed Real Time: 115.00 sec

Analysis Warnings:
Some transmission peaks rejected.

T R A N S M I S S I O N R E S U L T S

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.000 +/- 0.0000
SE-75	264.65	0.000 +/- 0.0000	0.046 +/- 0.0016
SE-75	279.53	0.000 +/- 0.0000	0.049 +/- 0.0023
SE-75	400.65	0.000 +/- 0.0000	0.073 +/- 0.0037

P E A K A N A L Y S I S R E S U L T S

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.88	2.79E-01 +/- 1.28E-01	4.10E+00	2.60E-07 +/- 1.73E-06
	2	49.25	2.21E+00 +/- 4.78E-01	4.00E+00	1.43E-05 +/- 4.01E-05
	3	60.19	2.20E+01 +/- 6.74E-01	3.65E+00	4.80E-05 +/- 8.24E-05
	4	99.43	1.43E+00 +/- 4.54E-01	3.16E+00	2.78E-04 +/- 7.08E-05
	5	111.93	5.74E-01 +/- 3.50E-01	3.09E+00	3.42E-04 +/- 3.77E-05
	6	117.60	7.31E-01 +/- 4.16E-01	3.06E+00	3.67E-04 +/- 2.69E-05
M	7	126.27	4.77E-01 +/- 1.40E-01	3.02E+00	3.98E-04 +/- 2.38E-05
m	8	130.01	2.23E+00 +/- 3.03E-01	3.00E+00	4.09E-04 +/- 2.73E-05
	9	255.21	3.39E-01 +/- 1.68E-01	2.61E+00	4.15E-04 +/- 3.08E-05
M	10	333.56	7.85E-01 +/- 1.52E-01	2.43E+00	3.43E-04 +/- 1.67E-05
m	11	336.49	3.33E-01 +/- 9.19E-02	2.43E+00	3.41E-04 +/- 1.67E-05
	12	345.71	6.75E-01 +/- 1.30E-01	2.41E+00	3.33E-04 +/- 1.69E-05
	13	375.80	1.95E+00 +/- 2.24E-01	2.35E+00	3.11E-04 +/- 1.79E-05
M	14	380.82	3.38E-01 +/- 8.92E-02	2.34E+00	3.07E-04 +/- 1.81E-05
m	15	383.29	4.04E-01 +/- 9.73E-02	2.33E+00	3.06E-04 +/- 1.82E-05
	16	393.67	9.07E-01 +/- 1.15E-01	2.32E+00	2.99E-04 +/- 1.85E-05
	17	413.70	2.32E+00 +/- 1.59E-01	2.28E+00	2.86E-04 +/- 1.90E-05
	18	452.09	1.39E-01 +/- 7.98E-02	2.22E+00	2.65E-04 +/- 1.91E-05
	19	662.42	9.40E-02 +/- 3.84E-02	1.97E+00	1.90E-04 +/- 1.21E-05
	20	722.01	1.07E-01 +/- 3.58E-02	1.92E+00	1.77E-04 +/- 1.01E-05
	21	2236.00	1.00E+02 +/- 1.50E+00	1.48E+00	5.76E-05 +/- 3.29E-05

Segment: 6 Detector: DET01 (# 1) Position: 6

Elapsed Live Time: 114.00 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.090 +/- 0.0066
SE-75	264.65	0.000 +/- 0.0000	0.136 +/- 0.0034
SE-75	279.53	0.000 +/- 0.0000	0.135 +/- 0.0041
SE-75	400.65	0.000 +/- 0.0000	0.174 +/- 0.0062

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	49.46	2.13E+00 +/- 4.22E-01	2.77E+00	2.01E-05 +/- 5.34E-05
2	60.18	2.34E+01 +/- 6.82E-01	2.57E+00	6.08E-05 +/- 9.94E-05
3	95.07	7.14E-01 +/- 3.41E-01	2.31E+00	2.81E-04 +/- 8.78E-05
4	129.29	7.01E-01 +/- 2.64E-01	2.19E+00	4.31E-04 +/- 2.73E-05
5	208.88	6.26E-01 +/- 1.75E-01	2.03E+00	4.72E-04 +/- 5.08E-05
6	311.90	2.79E-01 +/- 1.57E-01	1.90E+00	3.82E-04 +/- 1.81E-05
7	333.66	4.75E-01 +/- 1.41E-01	1.88E+00	3.65E-04 +/- 1.73E-05
8	345.66	1.59E-01 +/- 8.33E-02	1.86E+00	3.55E-04 +/- 1.74E-05
9	375.73	5.48E-01 +/- 1.10E-01	1.83E+00	3.34E-04 +/- 1.84E-05
10	393.54	2.01E-01 +/- 7.83E-02	1.81E+00	3.22E-04 +/- 1.90E-05
11	413.70	5.10E-01 +/- 9.92E-02	1.79E+00	3.09E-04 +/- 1.95E-05
12	511.69	1.82E-01 +/- 4.99E-02	1.71E+00	2.60E-04 +/- 1.85E-05
13	662.42	5.51E-02 +/- 3.86E-02	1.61E+00	2.10E-04 +/- 1.26E-05
14	722.01	5.20E-02 +/- 2.12E-02	1.58E+00	1.95E-04 +/- 1.05E-05
15	1112.12	2.17E-02 +/- 1.79E-02	1.44E+00	1.31E-04 +/- 5.52E-06
16	1408.01	2.60E-02 +/- 1.50E-02	1.38E+00	9.88E-05 +/- 6.79E-06
17	2236.00	1.00E+02 +/- 1.50E+00	1.31E+00	4.34E-05 +/- 2.42E-05

Segment: 7 Detector: DET01 (# 1) Position: 7

Elapsed Live Time: 113.52 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.144 +/- 0.0085
SE-75	264.65	0.000 +/- 0.0000	0.212 +/- 0.0050
SE-75	279.53	0.000 +/- 0.0000	0.219 +/- 0.0061
SE-75	400.65	0.000 +/- 0.0000	0.264 +/- 0.0085

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.89	7.46E-01 +/- 1.76E-01	3.06E+00	4.51E-09 +/- 2.60E-08
	2	60.19	5.97E+01 +/- 1.17E+00	2.21E+00	1.61E-05 +/- 2.39E-05
	3	100.50	2.83E+01 +/- 9.08E-01	1.99E+00	2.52E-04 +/- 5.35E-05
	4	104.18	2.97E+00 +/- 3.81E-01	1.98E+00	2.80E-04 +/- 4.76E-05
	5	111.70	1.69E+00 +/- 4.03E-01	1.96E+00	3.35E-04 +/- 3.48E-05
M	6	125.96	1.02E+00 +/- 1.56E-01	1.93E+00	4.24E-04 +/- 2.46E-05
m	7	130.01	6.97E+00 +/- 4.57E-01	1.92E+00	4.45E-04 +/- 2.77E-05
	8	152.68	6.28E+00 +/- 3.59E-01	1.88E+00	5.26E-04 +/- 5.21E-05
	9	204.34	6.95E-01 +/- 1.99E-01	1.79E+00	5.51E-04 +/- 5.50E-05
	10	208.70	1.59E+00 +/- 3.22E-01	1.78E+00	5.47E-04 +/- 5.32E-05
	11	256.09	3.98E-01 +/- 1.90E-01	1.71E+00	4.90E-04 +/- 3.18E-05
	12	311.90	2.88E-01 +/- 1.55E-01	1.66E+00	4.17E-04 +/- 1.86E-05
M	13	333.50	1.21E+00 +/- 1.79E-01	1.64E+00	3.91E-04 +/- 1.76E-05
m	14	336.55	4.93E-01 +/- 1.00E-01	1.64E+00	3.88E-04 +/- 1.76E-05
	15	345.71	8.64E-01 +/- 1.61E-01	1.63E+00	3.78E-04 +/- 1.76E-05
	16	375.78	2.04E+00 +/- 2.84E-01	1.61E+00	3.48E-04 +/- 1.82E-05
M	17	380.92	5.69E-01 +/- 1.14E-01	1.60E+00	3.44E-04 +/- 1.83E-05
m	18	383.61	5.91E-01 +/- 1.13E-01	1.60E+00	3.41E-04 +/- 1.84E-05
	19	393.84	1.01E+00 +/- 1.27E-01	1.60E+00	3.33E-04 +/- 1.86E-05
	20	413.70	3.78E+00 +/- 2.04E-01	1.58E+00	3.17E-04 +/- 1.88E-05
	21	423.56	1.86E-01 +/- 8.88E-02	1.57E+00	3.09E-04 +/- 1.88E-05
	22	452.29	3.45E-01 +/- 8.30E-02	1.56E+00	2.90E-04 +/- 1.86E-05
	23	511.72	2.42E-01 +/- 8.34E-02	1.52E+00	2.57E-04 +/- 1.71E-05
	24	584.05	3.87E-01 +/- 8.18E-02	1.48E+00	2.27E-04 +/- 1.45E-05
	25	662.42	2.65E-01 +/- 6.08E-02	1.45E+00	2.03E-04 +/- 1.17E-05
	26	727.81	8.29E-02 +/- 3.60E-02	1.42E+00	1.88E-04 +/- 9.84E-06
	27	767.18	2.46E-01 +/- 5.93E-02	1.41E+00	1.79E-04 +/- 8.96E-06
	28	867.39	4.93E-02 +/- 2.67E-02	1.38E+00	1.62E-04 +/- 7.44E-06
	29	964.13	4.62E-02 +/- 3.24E-02	1.36E+00	1.49E-04 +/- 6.59E-06
	30	2236.00	1.00E+02 +/- 1.51E+00	1.23E+00	5.07E-05 +/- 2.69E-05

Segment: 8 Detector: DET01 (# 1) Position: 8

Elapsed Live Time: 112.67 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.109 +/- 0.0079
SE-75	264.65	0.000 +/- 0.0000	0.171 +/- 0.0042
SE-75	279.53	0.000 +/- 0.0000	0.174 +/- 0.0051
SE-75	400.65	0.000 +/- 0.0000	0.213 +/- 0.0073

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.00	7.27E-01 +/- 1.92E-01	3.43E+00	7.59E-06 +/- 7.40E-06
	2	50.20	7.81E+00 +/- 9.20E-01	2.59E+00	6.01E-05 +/- 2.95E-05
	3	60.18	1.93E+02 +/- 2.76E+00	2.43E+00	1.10E-04 +/- 3.84E-05
	4	100.32	3.30E+01 +/- 1.17E+00	2.17E+00	3.29E-04 +/- 3.26E-05
	5	115.64	2.67E+00 +/- 5.32E-01	2.12E+00	3.89E-04 +/- 2.58E-05
M	6	123.69	6.90E-01 +/- 1.84E-01	2.10E+00	4.13E-04 +/- 2.35E-05
m	7	125.99	2.69E+00 +/- 2.34E-01	2.09E+00	4.19E-04 +/- 2.31E-05
m	8	130.03	1.60E+01 +/- 6.62E-01	2.08E+00	4.29E-04 +/- 2.26E-05
	9	152.68	8.02E+00 +/- 4.28E-01	2.03E+00	4.67E-04 +/- 2.32E-05
M	10	161.74	9.01E-01 +/- 2.41E-01	2.01E+00	4.75E-04 +/- 2.42E-05
m	11	164.99	5.28E-01 +/- 1.79E-01	2.00E+00	4.77E-04 +/- 2.45E-05
	12	204.24	1.11E+00 +/- 2.98E-01	1.92E+00	4.76E-04 +/- 2.61E-05
	13	208.70	3.40E+00 +/- 4.43E-01	1.91E+00	4.74E-04 +/- 2.60E-05
	14	255.97	5.33E-01 +/- 2.78E-01	1.83E+00	4.39E-04 +/- 2.28E-05
	15	311.90	5.73E-01 +/- 2.25E-01	1.78E+00	3.88E-04 +/- 1.78E-05
M	16	333.44	2.73E+00 +/- 2.70E-01	1.76E+00	3.69E-04 +/- 1.62E-05
m	17	336.40	1.01E+00 +/- 1.40E-01	1.75E+00	3.67E-04 +/- 1.60E-05
	18	345.73	1.29E+00 +/- 3.88E-01	1.74E+00	3.59E-04 +/- 1.54E-05
	19	368.46	8.95E-01 +/- 2.19E-01	1.73E+00	3.40E-04 +/- 1.42E-05
	20	375.79	6.00E+00 +/- 3.85E-01	1.72E+00	3.34E-04 +/- 1.38E-05
M	21	380.83	1.30E+00 +/- 1.69E-01	1.72E+00	3.30E-04 +/- 1.36E-05
m	22	383.51	1.33E+00 +/- 1.65E-01	1.71E+00	3.28E-04 +/- 1.35E-05
	23	393.75	3.16E+00 +/- 2.18E-01	1.71E+00	3.21E-04 +/- 1.31E-05
	24	413.70	7.59E+00 +/- 3.06E-01	1.69E+00	3.06E-04 +/- 1.25E-05
	25	423.22	7.53E-01 +/- 1.22E-01	1.68E+00	3.00E-04 +/- 1.22E-05
	26	452.22	9.68E-01 +/- 1.17E-01	1.66E+00	2.82E-04 +/- 1.16E-05
	27	511.40	4.24E-01 +/- 1.05E-01	1.62E+00	2.50E-04 +/- 1.09E-05
	28	583.89	4.88E-01 +/- 1.02E-01	1.57E+00	2.19E-04 +/- 1.02E-05
	29	662.42	4.81E-01 +/- 9.23E-02	1.53E+00	1.93E-04 +/- 9.41E-06
	30	681.24	5.27E-02 +/- 3.73E-02	1.52E+00	1.88E-04 +/- 9.20E-06
	31	767.34	5.32E-01 +/- 8.45E-02	1.48E+00	1.68E-04 +/- 8.15E-06
	32	1112.12	4.61E-02 +/- 3.52E-02	1.38E+00	1.26E-04 +/- 4.65E-06
	33	2236.00	1.00E+02 +/- 1.50E+00	1.27E+00	1.19E-04 +/- 2.92E-05

Segment: 9 Detector: DET01 (# 1) Position: 9

Elapsed Live Time: 111.95 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.084 +/- 0.0067
SE-75	264.65	0.000 +/- 0.0000	0.170 +/- 0.0042
SE-75	279.53	0.000 +/- 0.0000	0.181 +/- 0.0053
SE-75	400.65	0.000 +/- 0.0000	0.243 +/- 0.0081

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.98	1.60E+00 +/- 2.49E-01	3.78E+00	5.98E-09 +/- 3.61E-08
	2	50.13	2.60E+01 +/- 1.50E+00	2.82E+00	3.13E-06 +/- 7.71E-06
	3	60.18	4.53E+02 +/- 5.88E+00	2.63E+00	1.65E-05 +/- 2.58E-05
	4	99.61	1.34E+01 +/- 1.01E+00	2.33E+00	2.37E-04 +/- 5.54E-05
	5	103.72	1.75E+00 +/- 1.06E+00	2.32E+00	2.67E-04 +/- 4.87E-05
	6	111.73	3.32E+00 +/- 5.21E-01	2.29E+00	3.22E-04 +/- 3.46E-05
M	7	125.99	6.40E+00 +/- 3.50E-01	2.24E+00	4.05E-04 +/- 2.41E-05
m	8	130.00	1.74E+01 +/- 6.65E-01	2.23E+00	4.24E-04 +/- 2.73E-05
	9	144.98	5.58E-01 +/- 3.52E-01	2.18E+00	4.79E-04 +/- 4.44E-05
	10	152.68	5.13E-01 +/- 3.34E-01	2.15E+00	4.97E-04 +/- 5.14E-05
M	11	162.28	4.29E-01 +/- 1.69E-01	2.11E+00	5.13E-04 +/- 5.71E-05
m	12	165.60	4.61E-01 +/- 1.73E-01	2.10E+00	5.17E-04 +/- 5.83E-05
	13	180.46	7.95E-01 +/- 2.95E-01	2.05E+00	5.24E-04 +/- 5.98E-05
	14	196.00	6.31E-01 +/- 2.81E-01	2.00E+00	5.20E-04 +/- 5.64E-05
	15	204.27	2.23E+00 +/- 3.21E-01	1.98E+00	5.14E-04 +/- 5.34E-05
	16	208.69	3.29E+00 +/- 5.02E-01	1.96E+00	5.11E-04 +/- 5.15E-05
	17	256.13	5.09E-01 +/- 2.49E-01	1.84E+00	4.54E-04 +/- 3.03E-05
	18	311.90	9.55E-01 +/- 1.99E-01	1.74E+00	3.83E-04 +/- 1.78E-05
	19	321.59	7.67E-01 +/- 2.10E-01	1.73E+00	3.72E-04 +/- 1.73E-05
M	20	333.49	3.32E+00 +/- 2.92E-01	1.71E+00	3.59E-04 +/- 1.71E-05
m	21	336.38	1.16E+00 +/- 1.50E-01	1.71E+00	3.56E-04 +/- 1.71E-05
	22	345.78	2.85E+00 +/- 2.08E-01	1.70E+00	3.46E-04 +/- 1.72E-05
	23	368.88	9.78E-01 +/- 2.49E-01	1.67E+00	3.24E-04 +/- 1.77E-05
	24	375.80	5.93E+00 +/- 3.98E-01	1.66E+00	3.18E-04 +/- 1.78E-05
M	25	381.03	1.23E+00 +/- 1.62E-01	1.65E+00	3.14E-04 +/- 1.79E-05
m	26	383.51	1.29E+00 +/- 1.62E-01	1.65E+00	3.12E-04 +/- 1.80E-05
	27	393.67	2.58E+00 +/- 2.09E-01	1.64E+00	3.03E-04 +/- 1.81E-05
	28	413.70	8.07E+00 +/- 3.00E-01	1.62E+00	2.88E-04 +/- 1.83E-05
	29	423.50	5.67E-01 +/- 1.41E-01	1.61E+00	2.81E-04 +/- 1.83E-05
	30	452.18	9.41E-01 +/- 1.38E-01	1.59E+00	2.63E-04 +/- 1.81E-05
	31	583.87	2.07E-01 +/- 5.08E-02	1.52E+00	2.06E-04 +/- 1.39E-05
	32	619.72	5.77E-02 +/- 4.30E-02	1.50E+00	1.95E-04 +/- 1.26E-05

33	662.42	6.70E-01 +/-	1.02E-01	1.48E+00	1.84E-04 +/-	1.12E-05
34	722.01	3.31E-01 +/-	8.07E-02	1.45E+00	1.72E-04 +/-	9.44E-06
35	766.87	1.81E-01 +/-	5.12E-02	1.44E+00	1.64E-04 +/-	8.44E-06
36	964.13	3.01E-02 +/-	1.97E-02	1.38E+00	1.38E-04 +/-	6.28E-06
37	1001.03	8.93E-03 +/-	8.93E-03	1.37E+00	1.35E-04 +/-	6.06E-06
38	2236.00	1.00E+02 +/-	1.52E+00	1.25E+00	6.12E-05 +/-	3.31E-05

Segment: 10 Detector: DET01 (# 1) Position: 10

Elapsed Live Time: 112.85 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.098 +/- 0.0080
SE-75	264.65	0.000 +/- 0.0000	0.195 +/- 0.0047
SE-75	279.53	0.000 +/- 0.0000	0.199 +/- 0.0056
SE-75	400.65	0.000 +/- 0.0000	0.268 +/- 0.0085

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.27	1.03E+00 +/- 2.25E-01	3.54E+00	1.72E-05 +/- 1.69E-05
	2	49.92	5.43E+00 +/- 8.82E-01	2.68E+00	8.35E-05 +/- 4.21E-05
	3	60.19	2.44E+02 +/- 3.38E+00	2.50E+00	1.37E-04 +/- 4.88E-05
	4	99.45	1.16E+01 +/- 7.19E-01	2.23E+00	3.30E-04 +/- 3.40E-05
	5	111.72	1.83E+00 +/- 4.40E-01	2.19E+00	3.72E-04 +/- 2.73E-05
	6	115.62	8.40E-01 +/- 5.29E-01	2.18E+00	3.83E-04 +/- 2.57E-05
M	7	126.02	3.53E+00 +/- 2.58E-01	2.15E+00	4.08E-04 +/- 2.27E-05
m	8	130.02	1.36E+01 +/- 5.92E-01	2.14E+00	4.16E-04 +/- 2.21E-05
	9	204.31	4.56E-01 +/- 3.11E-01	1.89E+00	4.57E-04 +/- 2.52E-05
	10	208.70	2.62E+00 +/- 3.74E-01	1.88E+00	4.56E-04 +/- 2.51E-05
M	11	300.85	1.43E-01 +/- 3.80E-02	1.70E+00	3.95E-04 +/- 1.85E-05
m	12	303.46	1.53E-01 +/- 4.07E-02	1.70E+00	3.93E-04 +/- 1.83E-05
	13	311.90	1.00E+00 +/- 1.93E-01	1.69E+00	3.87E-04 +/- 1.76E-05
M	14	333.44	2.18E+00 +/- 2.21E-01	1.66E+00	3.71E-04 +/- 1.62E-05
m	15	336.51	9.98E-01 +/- 1.32E-01	1.66E+00	3.68E-04 +/- 1.60E-05
M	16	341.98	3.80E-01 +/- 8.73E-02	1.65E+00	3.64E-04 +/- 1.56E-05
m	17	345.78	1.63E+00 +/- 2.02E-01	1.64E+00	3.61E-04 +/- 1.54E-05
	18	369.13	4.02E-01 +/- 2.06E-01	1.62E+00	3.45E-04 +/- 1.43E-05
	19	375.76	3.44E+00 +/- 3.08E-01	1.61E+00	3.40E-04 +/- 1.40E-05
M	20	380.99	8.17E-01 +/- 1.31E-01	1.60E+00	3.37E-04 +/- 1.38E-05
m	21	383.43	8.15E-01 +/- 1.28E-01	1.60E+00	3.35E-04 +/- 1.37E-05
	22	393.65	1.92E+00 +/- 1.71E-01	1.59E+00	3.28E-04 +/- 1.34E-05
	23	413.70	4.87E+00 +/- 2.39E-01	1.57E+00	3.15E-04 +/- 1.29E-05
	24	423.29	2.17E-01 +/- 8.88E-02	1.57E+00	3.09E-04 +/- 1.27E-05

25	452.22	6.58E-01 +/-	1.11E-01	1.55E+00	2.92E-04 +/-	1.22E-05
26	662.42	4.78E-01 +/-	7.57E-02	1.44E+00	2.06E-04 +/-	1.03E-05
27	722.01	1.85E-01 +/-	4.72E-02	1.42E+00	1.89E-04 +/-	9.55E-06
28	867.39	2.47E-02 +/-	2.11E-02	1.37E+00	1.60E-04 +/-	7.45E-06
29	1408.01	8.77E-03 +/-	8.77E-03	1.28E+00	1.09E-04 +/-	6.83E-06
30	2236.00	1.00E+02 +/-	1.51E+00	1.23E+00	9.04E-05 +/-	2.29E-05

Segment: 11 Detector: DET01 (# 1) Position: 11

Elapsed Live Time: 113.53 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.149 +/- 0.0092
SE-75	264.65	0.000 +/- 0.0000	0.258 +/- 0.0059
SE-75	279.53	0.000 +/- 0.0000	0.262 +/- 0.0070
SE-75	400.65	0.000 +/- 0.0000	0.309 +/- 0.0094

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	50.64	6.71E+00 +/- 8.97E-01	2.31E+00	5.92E-04 +/- 1.53E-03
	2	60.19	1.14E+02 +/- 1.84E+00	2.18E+00	5.03E-04 +/- 8.46E-04
	3	99.46	7.01E+00 +/- 5.74E-01	1.97E+00	4.09E-04 +/- 1.02E-04
	4	111.80	1.62E+00 +/- 3.80E-01	1.94E+00	4.03E-04 +/- 4.43E-05
M	5	125.98	1.57E+00 +/- 1.88E-01	1.91E+00	4.00E-04 +/- 2.37E-05
m	6	130.04	8.88E+00 +/- 4.83E-01	1.90E+00	3.99E-04 +/- 2.64E-05
	7	208.67	2.10E+00 +/- 2.37E-01	1.71E+00	3.88E-04 +/- 4.34E-05
	8	311.90	3.01E-01 +/- 1.43E-01	1.57E+00	3.53E-04 +/- 1.69E-05
	9	333.42	1.41E+00 +/- 1.67E-01	1.55E+00	3.43E-04 +/- 1.63E-05
	10	345.72	1.04E+00 +/- 1.47E-01	1.55E+00	3.38E-04 +/- 1.66E-05
	11	369.17	1.97E-01 +/- 1.57E-01	1.53E+00	3.28E-04 +/- 1.76E-05
	12	375.79	1.88E+00 +/- 2.24E-01	1.53E+00	3.25E-04 +/- 1.79E-05
M	13	380.88	4.02E-01 +/- 1.01E-01	1.52E+00	3.23E-04 +/- 1.81E-05
m	14	383.50	3.30E-01 +/- 8.54E-02	1.52E+00	3.21E-04 +/- 1.83E-05
	15	393.80	6.58E-01 +/- 1.29E-01	1.52E+00	3.17E-04 +/- 1.87E-05
	16	400.66	1.12E-01 +/- 7.30E-02	1.51E+00	3.14E-04 +/- 1.90E-05
	17	413.70	2.47E+00 +/- 1.63E-01	1.50E+00	3.08E-04 +/- 1.94E-05
	18	423.33	2.63E-01 +/- 7.78E-02	1.50E+00	3.04E-04 +/- 1.97E-05
	19	452.43	2.63E-01 +/- 7.08E-02	1.48E+00	2.91E-04 +/- 2.00E-05
	20	511.82	1.69E-01 +/- 4.88E-02	1.45E+00	2.67E-04 +/- 1.91E-05
	21	662.42	1.15E-01 +/- 4.90E-02	1.39E+00	2.15E-04 +/- 1.30E-05
	22	964.13	8.79E-03 +/- 8.79E-03	1.31E+00	1.45E-04 +/- 6.48E-06
	23	2236.00	1.00E+02 +/- 1.51E+00	1.20E+00	5.79E-05 +/- 3.30E-05

Segment: 12 Detector: DET01 (# 1) Position: 12

Elapsed Live Time: 113.59 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.153 +/- 0.0088
SE-75	264.65	0.000 +/- 0.0000	0.240 +/- 0.0056
SE-75	279.53	0.000 +/- 0.0000	0.249 +/- 0.0066
SE-75	400.65	0.000 +/- 0.0000	0.309 +/- 0.0094

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.79	5.21E-01 +/- 1.58E-01	2.99E+00	2.04E-09 +/- 1.27E-08
	2	49.95	5.82E+00 +/- 8.48E-01	2.30E+00	2.05E-06 +/- 5.19E-06
	3	60.19	1.22E+02 +/- 1.90E+00	2.16E+00	1.30E-05 +/- 2.08E-05
	4	99.53	2.22E+00 +/- 7.17E-01	1.96E+00	2.34E-04 +/- 5.58E-05
	5	103.83	3.80E+00 +/- 4.47E-01	1.94E+00	2.67E-04 +/- 4.91E-05
	6	111.63	5.86E-01 +/- 3.39E-01	1.92E+00	3.25E-04 +/- 3.53E-05
	7	115.54	1.23E+00 +/- 3.78E-01	1.92E+00	3.52E-04 +/- 2.91E-05
M	8	125.99	1.76E+00 +/- 1.86E-01	1.89E+00	4.17E-04 +/- 2.45E-05
m	9	130.06	8.62E+00 +/- 4.74E-01	1.89E+00	4.38E-04 +/- 2.83E-05
	10	152.68	4.87E-01 +/- 2.19E-01	1.84E+00	5.19E-04 +/- 5.50E-05
	11	196.45	3.34E-01 +/- 2.41E-01	1.75E+00	5.42E-04 +/- 6.05E-05
	12	204.59	3.64E-01 +/- 2.35E-01	1.73E+00	5.35E-04 +/- 5.71E-05
	13	208.72	1.06E+00 +/- 2.45E-01	1.73E+00	5.31E-04 +/- 5.52E-05
	14	300.10	1.72E-01 +/- 1.22E-01	1.60E+00	4.04E-04 +/- 1.94E-05
	15	311.90	4.94E-01 +/- 1.49E-01	1.59E+00	3.88E-04 +/- 1.81E-05
M	16	333.53	8.46E-01 +/- 1.43E-01	1.57E+00	3.62E-04 +/- 1.72E-05
m	17	336.43	3.30E-01 +/- 7.84E-02	1.57E+00	3.59E-04 +/- 1.72E-05
	18	345.68	6.91E-01 +/- 1.21E-01	1.56E+00	3.49E-04 +/- 1.72E-05
	19	369.23	2.20E-01 +/- 1.05E-01	1.54E+00	3.25E-04 +/- 1.77E-05
	20	375.79	1.45E+00 +/- 1.87E-01	1.53E+00	3.19E-04 +/- 1.79E-05
M	21	380.99	3.29E-01 +/- 9.12E-02	1.53E+00	3.14E-04 +/- 1.80E-05
m	22	383.47	1.84E-01 +/- 6.45E-02	1.53E+00	3.12E-04 +/- 1.80E-05
	23	393.70	7.70E-01 +/- 1.02E-01	1.52E+00	3.03E-04 +/- 1.82E-05
	24	413.70	1.59E+00 +/- 1.44E-01	1.50E+00	2.87E-04 +/- 1.84E-05
	25	452.40	1.81E-01 +/- 5.15E-02	1.48E+00	2.61E-04 +/- 1.82E-05
	26	662.42	8.76E-02 +/- 5.20E-02	1.39E+00	1.82E-04 +/- 1.13E-05
	27	722.01	1.07E-01 +/- 4.20E-02	1.37E+00	1.70E-04 +/- 9.57E-06
	28	1408.01	8.71E-03 +/- 8.71E-03	1.25E+00	1.08E-04 +/- 7.12E-06
	29	2236.00	1.00E+02 +/- 1.50E+00	1.20E+00	6.48E-05 +/- 3.54E-05

Segment: 13 Detector: DET01 (# 1) Position: 13

Elapsed Live Time: 113.62 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.266 +/- 0.0118
SE-75	264.65	0.000 +/- 0.0000	0.362 +/- 0.0081
SE-75	279.53	0.000 +/- 0.0000	0.372 +/- 0.0093
SE-75	400.65	0.000 +/- 0.0000	0.410 +/- 0.0117

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.22	7.91E-01 +/- 1.74E-01	2.28E+00	1.90E-08 +/- 1.23E-07
	2	50.19	8.27E+00 +/- 8.35E-01	1.86E+00	5.14E-06 +/- 1.36E-05
	3	60.19	1.27E+02 +/- 1.96E+00	1.77E+00	2.30E-05 +/- 3.88E-05
	4	99.75	5.45E+00 +/- 7.25E-01	1.64E+00	2.52E-04 +/- 6.23E-05
	5	103.85	2.66E+00 +/- 5.03E-01	1.63E+00	2.80E-04 +/- 5.36E-05
	6	111.67	7.71E-01 +/- 3.40E-01	1.62E+00	3.29E-04 +/- 3.67E-05
M	7	125.92	1.44E+00 +/- 1.69E-01	1.60E+00	4.02E-04 +/- 2.40E-05
m	8	130.00	8.99E+00 +/- 4.77E-01	1.59E+00	4.19E-04 +/- 2.77E-05
	9	152.68	1.31E+00 +/- 2.25E-01	1.56E+00	4.81E-04 +/- 5.38E-05
	10	208.70	1.31E+00 +/- 2.68E-01	1.49E+00	4.88E-04 +/- 5.34E-05
	11	311.90	2.66E-01 +/- 1.20E-01	1.41E+00	3.74E-04 +/- 1.79E-05
M	12	333.39	8.73E-01 +/- 1.39E-01	1.40E+00	3.53E-04 +/- 1.73E-05
m	13	336.59	3.36E-01 +/- 7.64E-02	1.40E+00	3.50E-04 +/- 1.73E-05
	14	345.61	9.72E-01 +/- 1.40E-01	1.40E+00	3.41E-04 +/- 1.75E-05
	15	375.77	1.31E+00 +/- 1.89E-01	1.39E+00	3.16E-04 +/- 1.85E-05
M	16	381.01	3.13E-01 +/- 8.40E-02	1.38E+00	3.12E-04 +/- 1.87E-05
m	17	383.20	3.40E-01 +/- 8.40E-02	1.38E+00	3.11E-04 +/- 1.87E-05
	18	393.56	7.00E-01 +/- 1.09E-01	1.38E+00	3.03E-04 +/- 1.90E-05
	19	413.70	1.86E+00 +/- 1.53E-01	1.37E+00	2.89E-04 +/- 1.94E-05
	20	452.29	2.12E-01 +/- 6.19E-02	1.36E+00	2.67E-04 +/- 1.94E-05
	21	662.42	1.23E-01 +/- 4.86E-02	1.29E+00	1.92E-04 +/- 1.21E-05
	22	722.01	4.49E-02 +/- 2.30E-02	1.27E+00	1.80E-04 +/- 1.01E-05
	23	1085.91	8.76E-03 +/- 8.76E-03	1.21E+00	1.32E-04 +/- 5.78E-06
	24	1112.12	1.75E-02 +/- 1.24E-02	1.21E+00	1.30E-04 +/- 5.64E-06
	25	2236.00	1.00E+02 +/- 1.50E+00	1.15E+00	5.36E-05 +/- 3.03E-05

Segment: 14 Detector: DET01 (# 1) Position: 14

Elapsed Live Time: 113.89 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.718 +/- 0.0222
SE-75	264.65	0.000 +/- 0.0000	0.768 +/- 0.0165
SE-75	279.53	0.000 +/- 0.0000	0.782 +/- 0.0179
SE-75	400.65	0.000 +/- 0.0000	0.804 +/- 0.0204

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	50.18	3.92E+00 +/- 6.78E-01	1.18E+00	4.69E-05 +/- 1.15E-04
	2	60.20	7.57E+01 +/- 1.34E+00	1.17E+00	9.60E-05 +/- 1.50E-04
	3	99.92	7.25E+00 +/- 5.12E-01	1.14E+00	3.21E-04 +/- 7.35E-05
	4	111.82	1.05E+00 +/- 2.83E-01	1.14E+00	3.70E-04 +/- 3.90E-05
M	5	125.91	9.19E-01 +/- 1.28E-01	1.13E+00	4.12E-04 +/- 2.40E-05
m	6	130.07	5.47E+00 +/- 3.75E-01	1.13E+00	4.22E-04 +/- 2.69E-05
	7	152.68	1.16E+00 +/- 1.94E-01	1.13E+00	4.55E-04 +/- 4.75E-05
	8	196.38	1.83E-01 +/- 1.11E-01	1.12E+00	4.60E-04 +/- 5.09E-05
	9	208.74	9.55E-01 +/- 2.01E-01	1.11E+00	4.54E-04 +/- 4.69E-05
	10	333.56	2.60E-01 +/- 9.86E-02	1.09E+00	3.53E-04 +/- 1.64E-05
	11	345.72	6.00E-01 +/- 1.07E-01	1.09E+00	3.44E-04 +/- 1.65E-05
	12	375.79	9.01E-01 +/- 1.55E-01	1.09E+00	3.22E-04 +/- 1.72E-05
	13	380.78	2.71E-01 +/- 8.09E-02	1.09E+00	3.19E-04 +/- 1.74E-05
	14	393.74	3.13E-01 +/- 8.15E-02	1.09E+00	3.10E-04 +/- 1.77E-05
	15	413.70	1.10E+00 +/- 1.12E-01	1.08E+00	2.98E-04 +/- 1.80E-05
	16	1001.03	2.54E-02 +/- 2.23E-02	1.05E+00	1.37E-04 +/- 6.10E-06
	17	2236.00	1.00E+02 +/- 1.50E+00	1.04E+00	7.64E-05 +/- 4.15E-05

Segment: 15 Detector: DET01 (# 1) Position: 15

Elapsed Live Time: 114.23 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.922 +/- 0.0263
SE-75	264.65	0.000 +/- 0.0000	0.920 +/- 0.0196
SE-75	279.53	0.000 +/- 0.0000	0.930 +/- 0.0210
SE-75	400.65	0.000 +/- 0.0000	0.941 +/- 0.0234

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.20	2.24E+01 +/- 6.23E-01	1.04E+00	1.24E-05 +/- 2.03E-05
2	99.90	1.47E+00 +/- 2.81E-01	1.03E+00	2.37E-04 +/- 5.66E-05
3	111.66	3.66E-01 +/- 2.02E-01	1.03E+00	3.22E-04 +/- 3.51E-05
4	129.29	1.16E+00 +/- 1.70E-01	1.03E+00	4.21E-04 +/- 2.67E-05
5	279.54	1.04E-01 +/- 7.27E-02	1.03E+00	3.85E-04 +/- 2.22E-05
6	376.02	2.34E-01 +/- 7.85E-02	1.02E+00	2.88E-04 +/- 1.59E-05
7	413.70	2.73E-01 +/- 5.80E-02	1.02E+00	2.62E-04 +/- 1.65E-05
8	1001.03	8.67E-03 +/- 8.67E-03	1.01E+00	1.29E-04 +/- 5.86E-06
9	1112.12	1.73E-02 +/- 1.23E-02	1.01E+00	1.18E-04 +/- 5.22E-06
10	1408.01	8.67E-03 +/- 8.67E-03	1.01E+00	9.07E-05 +/- 6.42E-06
11	2236.00	1.00E+02 +/- 1.50E+00	1.01E+00	3.18E-05 +/- 1.80E-05

Segment: 16 Detector: DET01 (# 1) Position: 16

Elapsed Live Time: 114.34 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.993 +/- 0.0281
SE-75	264.65	0.000 +/- 0.0000	0.993 +/- 0.0212
SE-75	279.53	0.000 +/- 0.0000	1.000 +/- 0.0000
SE-75	400.65	0.000 +/- 0.0000	0.989 +/- 0.0246

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	49.94	1.24E+00 +/- 2.72E-01	1.00E+00	3.02E-05 +/- 1.84E-05
2	60.16	4.22E+00 +/- 3.04E-01	1.00E+00	5.62E-05 +/- 2.41E-05
3	129.29	2.21E-01 +/- 1.66E-01	1.00E+00	2.27E-04 +/- 1.46E-05
4	152.68	1.61E-01 +/- 1.02E-01	1.00E+00	2.51E-04 +/- 1.54E-05
5	722.01	4.40E-02 +/- 2.87E-02	1.00E+00	1.06E-04 +/- 6.56E-06
6	867.39	2.58E-02 +/- 2.00E-02	1.00E+00	8.96E-05 +/- 5.22E-06
7	2236.00	1.00E+02 +/- 1.49E+00	1.00E+00	6.28E-05 +/- 1.87E-05

Summed Spectrum

Peak Locate Report

Sample ID: LL85901383
Peak Locate Performed on: 4-30-08 3:39:58 PM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192
Peak Search Sensitivity: 5.00

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
1	64.64	0.1884	31.98	13.36
2	100.71	0.1467	50.02	15.95
3	121.04	0.0365	60.19	325.83
4	200.23	0.0731	99.78	68.48
5	208.43	0.0873	103.88	54.24
6	224.10	0.1204	111.71	29.08
7	232.40	0.1458	115.86	11.82
8	260.77	0.0729	130.02	80.54
9	307.64	0.1225	153.49	28.52
10	393.87	0.2546	196.60	6.86
11	418.08	0.0920	208.71	50.22
12	512.94	0.2404	256.13	7.44
13	625.88	0.1649	312.61	15.23
14	667.56	0.1094	333.50	32.46
15	673.89	0.1781	336.39	15.21
16	684.59	0.2522	342.11	7.52
17	692.11	0.1058	345.75	36.04
18	738.46	0.1711	368.89	10.20
19	752.25	0.0770	375.79	63.23
20	762.14	0.1442	380.93	21.68
21	767.92	0.1585	383.49	18.62
22	788.04	0.1075	393.69	34.18
23	829.60	0.0759	414.47	61.54
24	847.41	0.1473	423.37	16.51
25	905.17	0.1320	452.25	21.82
26	1023.90	0.2067	511.62	7.39
27	1118.97	0.2698	559.15	5.04
28	1168.50	0.2131	583.92	7.37
29	1239.81	0.2659	619.57	5.31
30	1327.17	0.1604	663.25	13.85
31	1446.37	0.1797	722.85	10.40
32	1534.86	0.2525	767.10	5.89
33	4472.96	0.0263	2236.14	412.62

Errors quoted at 1.000 sigma

Summed Spectrum

Peak Analysis Report

Sample ID: LL85901383
Peak Analysis Performed on: 4-30-08 3:39:58 PM
Peak Analysis From Channel: 40
Peak Analysis To Channel: 8192

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	1	61-	71	64.64	31.98	1.50E+03	88.25	2.24E+03
	2	94-	105	100.71	50.02	9.42E+03	315.55	3.39E+04
	3	114-	127	121.04	60.19	1.89E+05	537.28	3.60E+04
	4	194-	206	200.23	99.78	7.15E+03	341.74	4.07E+04
	5	206-	215	208.43	103.88	5.79E+03	230.22	1.66E+04
	6	217-	227	224.10	111.71	2.25E+03	176.34	1.20E+04
	7	227-	239	232.40	115.86	3.89E+02	216.48	1.68E+04
F	8	257-	267	260.70	130.02	1.23E+04	202.15	5.22E+03
	9	303-	314	307.64	153.49	1.61E+03	145.59	7.74E+03
	10	391-	398	393.87	196.60	3.06E+02	85.68	3.48E+03
	11	414-	425	418.08	208.71	3.78E+03	133.64	5.51E+03
	12	505-	520	512.94	256.13	5.19E+02	107.82	3.69E+03
	13	622-	631	625.88	312.61	5.89E+02	66.53	1.69E+03
M	14	660-	677	667.66	333.50	2.62E+03	85.58	1.25E+03
m	15	660-	677	673.44	336.39	1.06E+03	49.03	1.23E+03
M	16	680-	699	684.90	342.11	2.57E+02	30.57	1.24E+03
m	17	680-	699	692.16	345.75	2.40E+03	87.39	9.51E+02
	18	730-	746	738.46	368.89	4.20E+02	91.52	2.46E+03
	19	746-	759	752.25	375.79	4.87E+03	123.68	3.53E+03
M	20	759-	775	762.53	380.93	1.11E+03	55.16	9.59E+02
m	21	759-	775	767.65	383.49	1.04E+03	51.47	7.97E+02
	22	780-	795	788.04	393.69	2.35E+03	71.48	9.21E+02
	23	821-	837	829.60	414.47	6.78E+03	95.24	7.31E+02
	24	844-	852	847.41	423.37	4.26E+02	36.40	4.05E+02
	25	897-	913	905.17	452.25	7.84E+02	46.12	4.30E+02
	26	1015-	1031	1023.90	511.62	3.38E+02	35.59	2.97E+02
	27	1114-	1123	1118.97	559.15	4.73E+01	17.88	1.21E+02
	28	1160-	1176	1168.50	583.92	1.34E+02	26.51	1.82E+02
	29	1231-	1247	1239.81	619.57	1.06E+02	24.83	1.63E+02
	30	1318-	1335	1327.17	663.25	4.46E+02	30.33	1.46E+02
	31	1440-	1451	1446.37	722.85	1.98E+02	20.72	9.19E+01
	32	1526-	1543	1534.86	767.10	1.69E+02	21.95	9.61E+01
	33	4465-	4483	4472.96	2236.14	1.84E+05	429.17	1.68E+02

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Summed Spectrum

Nuclide Identification Report

Sample ID: LL85901383
Nuclide Library Used: C:\WAS\NLIB\LLNL.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (uCi/)	Activity Uncertainty
Pulser	0.999	2236.00*	100.00	8.565E+02	1.650E+02
Np-237	0.733	300.10	6.63		
		311.90*	38.60	1.936E+00	2.189E-01
Pu-238	0.955	152.68*	0.00	2.053E+05	1.884E+04
Pu-239	0.959	413.70*	0.00	6.906E+05	1.584E+04
Pu-239A	0.964	129.29*	0.01	2.676E+05	7.328E+03
Am-241	0.952	662.42*	0.00	2.353E+05	1.612E+04
Am-241D	0.951	722.01*	0.00	2.265E+05	2.378E+04

* = Energy line found in the spectrum.
Energy Tolerance : 1.500 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 4-30-08 3:39:58 PM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
1	31.98	1.3118E+01	5.89
2	50.02	8.2398E+01	3.36
3	60.19	1.6499E+03	0.38
4	99.78	6.2567E+01	4.79
5	103.88	5.0644E+01	3.99
6	111.71	1.9691E+01	7.84
7	115.86	3.3990E+00	55.72
10	196.60	2.6732E+00	28.04
11	208.71	3.3054E+01	3.55
12	256.13	4.5393E+00	20.78
M 14	333.50	2.2890E+01	3.28
m 15	336.39	9.2871E+00	4.63
M 16	342.11	2.2515E+00	11.88
m 17	345.75	2.0993E+01	3.65
18	368.89	3.6741E+00	21.79
19	375.79	4.2594E+01	2.55
M 20	380.93	9.6766E+00	4.99
m 21	383.49	9.1400E+00	4.93
22	393.69	2.0530E+01	3.06
24	423.37	3.7234E+00	8.56
25	452.25	6.8596E+00	5.89
26	511.62	2.9536E+00	10.55
27	559.15	4.1419E-01	37.77
28	583.92	1.1733E+00	19.77
29	619.57	9.2360E-01	23.53
32	767.10	1.4774E+00	13.00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Combined Segment NID

NID Results Combiner Mode: Sum Activities

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		9.31E+02	+/-	1.37E+02	1.39E-02	+/-	2.04E-03
SE-75	<	1.57E-01	+/-	1.12E-02	< 2.35E-06	+/-	1.68E-07
EU-152x	<	2.17E-01	+/-	1.63E-02	< 3.24E-06	+/-	2.44E-07
U-233	<	7.01E+03	+/-	6.09E+02	< 1.05E-01	+/-	9.10E-03
U-235	<	1.88E-01	+/-	2.53E-02	< 2.81E-06	+/-	3.78E-07
Np-237		1.75E+00	+/-	2.11E-01	2.62E-05	+/-	3.16E-06
Pu-238		1.99E+05	+/-	1.21E+04	2.97E+00	+/-	1.81E-01
U-238		1.14E+00	+/-	6.62E-01	1.70E-05	+/-	9.89E-06
Pu-239		8.08E+05	+/-	2.16E+04	1.21E+01	+/-	3.22E-01
Pu-239A		2.42E+05	+/-	6.49E+03	3.62E+00	+/-	9.70E-02
Am-241		2.37E+05	+/-	1.79E+04	3.54E+00	+/-	2.68E-01
Am-241D		2.56E+05	+/-	2.77E+04	3.83E+00	+/-	4.14E-01
Pu-241		3.18E+05	+/-	8.69E+04	4.75E+00	+/-	1.30E+00

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
Np-237	2.49E-03	+/-	3.00E-04
Pu-238	1.16E-02	+/-	7.09E-04
U-238	3.40E+00	+/-	1.97E+00
Pu-239	1.30E+01	+/-	3.47E-01
Pu-239A	3.90E+00	+/-	1.05E-01
Am-241	6.92E-02	+/-	5.24E-03
Pu-241	3.07E-03	+/-	8.41E-04

Summed Spectrum

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		8.57E+02	+/-	1.65E+02	1.28E-02	+/-	2.47E-03
SE-75	<	7.10E-01	+/-	5.59E-03	< 1.06E-05	+/-	8.36E-08
EU-152x	<	6.54E-01	+/-	1.01E-02	< 9.77E-06	+/-	1.51E-07
U-233	<	4.19E+04	+/-	8.20E+02	< 6.26E-01	+/-	1.23E-02
U-235	<	9.79E-01	+/-	2.07E-02	< 1.46E-05	+/-	3.09E-07
Np-237		1.94E+00	+/-	2.19E-01	2.89E-05	+/-	3.27E-06
Pu-238		2.05E+05	+/-	1.88E+04	3.07E+00	+/-	2.82E-01
U-238	<	1.77E+01	+/-	2.74E-01	< 2.65E-04	+/-	4.09E-06
Pu-239		6.91E+05	+/-	1.58E+04	1.03E+01	+/-	2.37E-01
Pu-239A		2.68E+05	+/-	7.33E+03	4.00E+00	+/-	1.10E-01
Am-241		2.35E+05	+/-	1.61E+04	3.52E+00	+/-	2.41E-01
Am-241D		2.27E+05	+/-	2.38E+04	3.39E+00	+/-	3.55E-01
Pu-241	<	4.13E+05	+/-	6.74E+03	< 6.17E+00	+/-	1.01E-01

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
Np-237	2.75E-03	+/-	3.11E-04
Pu-238	1.20E-02	+/-	1.10E-03
Pu-239	1.11E+01	+/-	2.55E-01
Pu-239A	4.31E+00	+/-	1.18E-01
Am-241	6.87E-02	+/-	4.71E-03

Final Non-Uniformity Results

Source Longitudinal Ratio:	0.000	+/-	0.0000
Matrix Longitudinal Ratio:	0.992	+/-	12.5294
Source Vertical Ratio:	0.000	+/-	0.0000
Matrix Vertical Ratio:	0.994	+/-	0.1310

NUDS could not find the transmission peak in one radial segment.
NUDS could not find the source peak in any radial segment.

Radioassay Data Sheet
Procedure ID & Rev: WCP-55 03/07/2002

Wed Apr 2 06:58:35 2008
Software Version: GWAS v2.3bGEN

Drum ID	: LL85001753	Gross Weight (kg)	: 51.2
Sequence Number	: 2650	Fill Height (%)	: 100.0
Assay Date	: 04/01/08 16:07:17	Density (g/cc)	: 0.13
		Net Weight (kg)	: 27.40
Batch Number	:	Waste Matrix Code	:
Site ID	:	TRUCON	:

	Errors at 1.00 Sigma		
TRU Alpha Activity Concentration:	7.54e-05	+/- 9.84e-06	Ci/g
Total Pu-239 Equiv Activity:	2.10e+00	+/- 2.70e-01	Ci
Total Pu-239 Fissile Gram Equiv:	2.42e+01	+/- 4.22e+00	g
Decay Heat:	6.57e-02	+/- 8.49e-03	W
Total Pu Mass:	2.51e+01	+/- 4.22e+00	g
TMU:	17.74%		
Waste Classification:	TRU		

Isotopics Data

Measured Isotope	MGA Report Weight %	MGA Report % Err (1.00 Sigma)
Pu-238	3.03e-02	4.58e+00
Pu-239	9.46e+01	1.07e-01
Pu-240	5.26e+00	1.91e+00
Pu-241	8.40e-02	2.85e+00
Pu-242	2.18e-02	1.00e+01
Am-241	2.73e-01	1.28e+00
Am-243	0.00e+00	0.00e+00
Np-237	0.00e+00	0.00e+00
U-235	5.96e+00	9.50e+00

Activity Errors

Isotope	Isotope Mass (g)	1.00 Sigma Error/Isotope Mass (g)	Alpha Activity/ Isotope (Ci)	1.00 Sigma Error/Isotope (Ci)	MDA (g)
Pu-238	7.62e-03	1.40e-03	1.30e-01	2.39e-02	9.35e-04
Pu-239	2.38e+01	4.22e+00	1.47e+00	2.62e-01	1.00e-01
Pu-240	1.32e+00	2.36e-01	3.00e-01	5.35e-02	0.00e+00
Pu-241	2.11e-02	3.79e-03	2.18e+00	3.92e-01	8.11e-04
Pu-242	5.46e-03	1.11e-03	2.15e-05	4.37e-06	0.00e+00
Am-241	4.73e-02	8.74e-03	1.62e-01	2.99e-02	3.63e-03
Am-243	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
Np-237	2.44e-03	4.99e-04	1.72e-06	3.52e-07	4.60e-04
U-235	3.81e-01	8.48e-02	8.25e-07	1.83e-07	1.16e-01
U-238	4.84e+01	1.07e+01	1.63e-05	3.60e-06	1.58e+01
*U-233	<LLD	0.00e+00	0.00e+00	0.00e+00	9.42e-01
CS-137	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
U-234	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
SR-90	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00

* = Activity/Mass below detectable limit.

Operator Signature: Robert J. Hazlett Jr.
Date: 4-30-08

Reviewer Signature
Date

AUTOMATED INDEPENDENT TECHNICAL REVIEW BASED ON WCP-55 03/07/2002

Software Version: GWAS v2.3bGEN
Counter Number: SGS
Data Review for Container: LL85001753
Item Description Code: \Count Type: DEBRIS
Sequence Number: 2650
Assayed on: 04/01/08 16:07:17
Report Generated: 04/02/08 06:58:19
AITR Version 1.4

Section 1 MGA Analysis Review Using MGA Isotopics

REVIEW Pu-240 Wt Pct +2 Sigma error <5.46> less than <5.87> Review MGA Results OK
Pu-240 Wt Pct error <1.91> is within limits
Pu-238 Wt Pct error <4.58> is within limits
QFIT <1.00> is within limits
REVIEW MGAERR12: Calculations in MGAABS didn't converge: MGA results may be suspect ok

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Section 2 - CONTAINER DENSITY REVIEW

Container density <0.132> g/cc is within UPPER and LOWER limits

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Section 3 - SELF-ABSORPTION REVIEW

REVIEW Pu-239/Pu-239a ratio <3.87e+00> > <2.50e+00> OK

Section 4 - PULSER REVIEW

DEAD TIME percentage <0.78> is acceptable in Segment 1
Pulser value <0.99> is within range in Segment 1
DEAD TIME percentage <0.95> is acceptable in Segment 2
Pulser value <0.99> is within range in Segment 2
DEAD TIME percentage <1.12> is acceptable in Segment 3
Pulser value <0.99> is within range in Segment 3
DEAD TIME percentage <1.38> is acceptable in Segment 4
Pulser value <1.00> is within range in Segment 4
DEAD TIME percentage <2.43> is acceptable in Segment 5
Pulser value <0.99> is within range in Segment 5
DEAD TIME percentage <3.79> is acceptable in Segment 6
Pulser value <1.00> is within range in Segment 6
DEAD TIME percentage <3.32> is acceptable in Segment 7
Pulser value <0.99> is within range in Segment 7
DEAD TIME percentage <1.40> is acceptable in Segment 8
Pulser value <0.99> is within range in Segment 8
DEAD TIME percentage <0.80> is acceptable in Segment 9
Pulser value <0.99> is within range in Segment 9
DEAD TIME percentage <0.70> is acceptable in Segment 10
Pulser value <0.99> is within range in Segment 10
DEAD TIME percentage <0.67> is acceptable in Segment 11
Pulser value <0.99> is within range in Segment 11
DEAD TIME percentage <0.63> is acceptable in Segment 12
Pulser value <0.99> is within range in Segment 12
DEAD TIME percentage <0.63> is acceptable in Segment 13
Pulser value <0.99> is within range in Segment 13
DEAD TIME percentage <0.59> is acceptable in Segment 14
Pulser value <0.99> is within range in Segment 14
DEAD TIME percentage <0.59> is acceptable in Segment 15
Pulser value <0.99> is within range in Segment 15
DEAD TIME percentage <0.57> is acceptable in Segment 16
Pulser value <0.98> is within range in Segment 16

Section 5 - TRANSMISSION REVIEW

Transmission results are acceptable in Segment 1
Transmission results are acceptable in Segment 2
Transmission results are acceptable in Segment 3
Transmission results are acceptable in Segment 4
Transmission results are acceptable in Segment 5
Transmission results are acceptable in Segment 6

Transmission results are acceptable in Segment 7
Transmission results are acceptable in Segment 8
Transmission results are acceptable in Segment 9
Transmission results are acceptable in Segment 10
Transmission results are acceptable in Segment 11
Transmission results are acceptable in Segment 12
Transmission results are acceptable in Segment 13
Transmission results are acceptable in Segment 14
Transmission results are acceptable in Segment 15
Transmission results are acceptable in Segment 16

Section 6 - REDUCED CHI SQUARED FIT REVIEW

All energy peaks within <3.00e+00> RCHISQ limit

Section 7 - FGE MASS REVIEW

FGE Mass <28.44> is within limits

Section 8 - PERCENT FULL REVIEW

Percent Full <100.0> is above lower limit <30.0>

Section 9 - IDC COUNT TYPE REVIEW

REVIEW IDC is not available

Section 10 - AM-241 & NP-237 INTERFERENCE REVIEW

Am-241 ratio <502.72> is above lower limit <200.00>
Np-237 ratio <9748.38> is above lower limit <125.00>

Section 11 - PU-239 CALIBRATION RANGE REVIEW

Pu-239 <23.76> is within limits

Section 12 - CS-137 INTERFERENCE REVIEW

Cs-137 Z Value <1.05> is less than limit <1.96>

Independent Reviewer: Robert J. Hackett Jr Date: 4-30-08

INDEPENDENT TECHNICAL REVIEW COMMENT SHEET

Counter Number: SGS
Data Review for Container: LL85001753
Item Description Code:
Sequence Number: 2650
Assayed on: 04/01/08 16:07:17
AITR Version 1.4

Comments	Disposition
SECTION 1 - MGA	
Pu-240 Wt Pct +2 Sigma error is less than lower limit. MGAERR12	OK OK
SECTION 3 - SELF-ABSORPTION	
Pu-239/Pu-239a ratio is greater than upper limit.	OK
SECTION 9 - IDC COUNT TYPE	
IDC is not available.	N/A

Technical Reviewer: Robert J. Hurtt Date: 4-30-08

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*************************************************************************
*****                    M G A   R E P O R T                        *****
*************************************************************************
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Report generated on: 4-01-08 5:03:54 PM

MGA version: MGA V9.5 CI

Spectrum ID: 11202650.CNF Sens : 30.0% LT: 54.8 Mins DT: 1.95
Measurement date: 4-01-08 Declared date: 4-01-08

Sample ID: LL85001753 Detector: Total counts: 2.014E+06

Pu g/cm2 = 0.7456 Cd g/cm2 = 1.5488 FWHM at 122 keV = 646 eV
QFIT = 1.00 FWHM at 208 keV = 827 eV
NQFIT = 1.00

Isotope	Relative to Pu-239	%* Err	% Err	Relative to Pu-241	%* Err	Isotope analysis at Meas. date % weight	%Err	Decl. date % weight	%Err
Pu-238	0.000321	4.6	4.5	0.3612	4.9	0.03033	4.58	0.03033	4.58
Pu-239	1.000000	0.0	0.9	1126.763	2.9	94.60886	0.11	94.60886	0.11
Pu-240	0.055545	2.0	1.9	62.5865	3.2	5.25509	1.91	5.25509	1.91
Pu-241	0.000887	2.9	2.6	1.0000	0.0	0.08397	2.85	0.08397	2.85
Pu-242	(New alg.	)		0.2592	(10)	0.02176	(10)	0.02176	(10)
Am-241	0.002886	1.3	1.0	3.2523	2.8	0.27308	1.28	0.27308	1.28
U-235	0.062981	9.5	9.5			5.95860	9.50	5.95860	9.50

Pu-240 effective (meas. date) = 5.368 +/- 2.06%
Am-241 separated about 29.863 +/- 0.450 years ago
Am/Pu-241 weight ratio = 3.25235 +/- 2.84%

Messages :

Lead x-rays detected.
Calculations in MGAABS didn't converge : results may be suspect.
Pu-241/Pu-239 efficiency changed in MGACAL by 2%.
17 MGA parameter(s) defaulted, starting from parameter 8.

Notes : * = Error in ratio
1.000 sigma errors

Gamma Waste Assay

Sample Information

File Name: C:\WAS\DATA\2700\11102650.S11
Sample ID: LL85001753 Count Sequence Number: 2650
Assay Start: 4-01-08 4:07:19 PM
Description 1:
Description 2:
Location:
Comment:
Waste Type:
Weight: Gross: 51200.0 g Net: 27400.0 g
Density: 0.132 g /ml

Container Type: 55 Gal Galv 23.8
Container: Volume: 208000. ml Full: 100.0 %

System Configuration

Counter ID Number: SGS
Arrangement Description: SGS
Segments: Number: 16 Offset: 0
Scanning Platform: Start: 934 mm Delta: -51 mm
Count Type: 55 Gal Galv 23.8
Collimator/Geometry Setting: 0
Transmission Mode: Two pass
Transmission Source: 0

Errors quoted at 1.000 sigma
Reference Source Date: Reference Source Rate: 1.00E+02 cps
Geometric Correction Factor(SWCONTGCF): 0.760
Date of efficiency calibration approval: 8-27-2003 2:05:34 PM
Mu Factors response file: Lucite
Transmission Calib. Time: 12-10-2007 3:51:07 PM 28849

Reviewed by: Robert J Haslett Jr Date: 4-30-08

Segment Results

Segment: 1 Detector: DET01 (# 1) Position: 1

Elapsed Live Time: 114.10 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.204 +/- 0.0098
SE-75	264.65	0.000 +/- 0.0000	0.294 +/- 0.0066
SE-75	279.53	0.000 +/- 0.0000	0.299 +/- 0.0076
SE-75	400.65	0.000 +/- 0.0000	0.349 +/- 0.0101

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.27	5.21E-01 +/- 1.19E-01	2.60E+00	5.43E-10 +/- 3.81E-09
2	60.19	1.76E+01 +/- 5.55E-01	1.96E+00	6.37E-06 +/- 1.17E-05
3	99.29	9.32E-01 +/- 4.09E-01	1.79E+00	1.51E-04 +/- 4.18E-05
4	104.43	5.55E-01 +/- 2.94E-01	1.78E+00	1.80E-04 +/- 3.62E-05
5	129.29	3.02E+00 +/- 2.60E-01	1.73E+00	3.01E-04 +/- 2.13E-05
6	183.76	3.99E-01 +/- 2.20E-01	1.64E+00	3.91E-04 +/- 5.25E-05
7	208.84	5.60E-01 +/- 2.00E-01	1.61E+00	3.80E-04 +/- 4.53E-05
8	311.90	2.87E-01 +/- 1.30E-01	1.51E+00	2.76E-04 +/- 1.41E-05
9	333.54	5.91E-01 +/- 1.16E-01	1.49E+00	2.57E-04 +/- 1.33E-05
10	345.86	2.62E-01 +/- 8.99E-02	1.48E+00	2.47E-04 +/- 1.34E-05
11	375.80	8.58E-01 +/- 9.86E-02	1.47E+00	2.25E-04 +/- 1.40E-05
12	393.60	1.16E-01 +/- 6.90E-02	1.46E+00	2.14E-04 +/- 1.43E-05
13	413.70	6.32E-01 +/- 7.89E-02	1.45E+00	2.03E-04 +/- 1.44E-05
14	452.17	8.35E-02 +/- 4.70E-02	1.43E+00	1.84E-04 +/- 1.43E-05
15	511.37	1.79E-01 +/- 5.94E-02	1.40E+00	1.62E-04 +/- 1.31E-05
16	964.13	3.88E-02 +/- 2.58E-02	1.28E+00	9.44E-05 +/- 5.09E-06
17	1408.01	8.70E-03 +/- 8.70E-03	1.22E+00	6.92E-05 +/- 5.19E-06
18	2236.00	1.00E+02 +/- 1.50E+00	1.18E+00	3.40E-05 +/- 2.15E-05

Segment: 2 Detector: DET01 (# 1) Position: 2

Elapsed Live Time: 113.91 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.193 +/- 0.0093
SE-75	264.65	0.000 +/- 0.0000	0.272 +/- 0.0062
SE-75	279.53	0.000 +/- 0.0000	0.279 +/- 0.0072
SE-75	400.65	0.000 +/- 0.0000	0.323 +/- 0.0095

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.89	5.60E-01 +/- 1.36E-01	2.69E+00	1.84E-05 +/- 1.15E-04
	2	49.93	1.59E+00 +/- 5.16E-01	2.11E+00	8.30E-05 +/- 2.13E-04
	3	60.20	3.63E+01 +/- 8.38E-01	2.00E+00	1.33E-04 +/- 2.14E-04
	4	99.30	2.19E+00 +/- 4.28E-01	1.82E+00	3.09E-04 +/- 7.53E-05
	5	111.79	1.03E+00 +/- 3.72E-01	1.79E+00	3.48E-04 +/- 3.76E-05
M	6	126.02	5.11E-01 +/- 1.36E-01	1.77E+00	3.82E-04 +/- 2.26E-05
m	7	130.01	5.01E+00 +/- 3.94E-01	1.76E+00	3.89E-04 +/- 2.52E-05
	8	204.29	3.31E-01 +/- 1.97E-01	1.65E+00	4.27E-04 +/- 4.63E-05
	9	311.90	2.18E-01 +/- 1.24E-01	1.54E+00	3.58E-04 +/- 1.69E-05
	10	333.61	5.55E-01 +/- 1.59E-01	1.53E+00	3.42E-04 +/- 1.64E-05
	11	345.64	4.47E-01 +/- 1.13E-01	1.52E+00	3.34E-04 +/- 1.66E-05
	12	375.72	8.85E-01 +/- 1.40E-01	1.50E+00	3.13E-04 +/- 1.75E-05
M	13	380.78	1.17E-01 +/- 5.00E-02	1.50E+00	3.10E-04 +/- 1.77E-05
m	14	383.54	1.86E-01 +/- 7.16E-02	1.50E+00	3.08E-04 +/- 1.78E-05
	15	393.61	4.50E-01 +/- 8.68E-02	1.49E+00	3.01E-04 +/- 1.81E-05
	16	413.70	9.39E-01 +/- 1.09E-01	1.48E+00	2.89E-04 +/- 1.85E-05
	17	662.42	4.45E-02 +/- 3.26E-02	1.37E+00	1.86E-04 +/- 1.15E-05
	18	964.13	3.46E-02 +/- 1.73E-02	1.30E+00	1.32E-04 +/- 6.07E-06
	19	2236.00	1.00E+02 +/- 1.50E+00	1.19E+00	9.73E-05 +/- 5.41E-05

Segment: 3 Detector: DET01 (# 1) Position: 3

Elapsed Live Time: 113.71 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.194 +/- 0.0094
SE-75	264.65	0.000 +/- 0.0000	0.273 +/- 0.0062
SE-75	279.53	0.000 +/- 0.0000	0.279 +/- 0.0072
SE-75	400.65	0.000 +/- 0.0000	0.333 +/- 0.0098

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.09	2.28E-01 +/- 1.19E-01	2.67E+00	3.48E-06 +/- 3.32E-06
	2	50.00	1.79E+00 +/- 4.67E-01	2.10E+00	3.88E-05 +/- 1.89E-05
	3	60.20	6.05E+01 +/- 1.15E+00	1.99E+00	8.09E-05 +/- 2.79E-05
	4	99.29	3.51E+00 +/- 5.11E-01	1.82E+00	2.96E-04 +/- 3.04E-05
	5	115.56	8.99E-01 +/- 3.79E-01	1.78E+00	3.70E-04 +/- 2.48E-05
M	6	126.08	5.00E-01 +/- 1.41E-01	1.76E+00	4.08E-04 +/- 2.26E-05
m	7	130.04	6.63E+00 +/- 4.52E-01	1.76E+00	4.20E-04 +/- 2.22E-05
	8	148.57	5.21E-01 +/- 3.76E-01	1.73E+00	4.63E-04 +/- 2.25E-05
	9	185.71	7.47E-01 +/- 1.93E-01	1.67E+00	4.95E-04 +/- 2.57E-05
	10	204.26	8.83E-01 +/- 2.36E-01	1.65E+00	4.93E-04 +/- 2.59E-05
	11	208.70	5.16E-01 +/- 3.22E-01	1.64E+00	4.92E-04 +/- 2.59E-05
	12	311.90	2.89E-01 +/- 1.46E-01	1.54E+00	4.04E-04 +/- 1.79E-05
M	13	333.43	7.12E-01 +/- 1.42E-01	1.52E+00	3.84E-04 +/- 1.63E-05
m	14	336.13	3.20E-01 +/- 8.64E-02	1.52E+00	3.81E-04 +/- 1.61E-05
	15	345.77	3.22E-01 +/- 1.33E-01	1.51E+00	3.72E-04 +/- 1.56E-05
	16	369.28	2.35E-01 +/- 1.16E-01	1.49E+00	3.52E-04 +/- 1.43E-05
	17	375.77	1.50E+00 +/- 2.04E-01	1.49E+00	3.46E-04 +/- 1.41E-05
M	18	380.85	1.34E-01 +/- 6.97E-02	1.49E+00	3.42E-04 +/- 1.38E-05
m	19	383.77	1.31E-01 +/- 6.49E-02	1.49E+00	3.39E-04 +/- 1.37E-05
	20	393.76	3.50E-01 +/- 8.13E-02	1.48E+00	3.31E-04 +/- 1.34E-05
	21	413.70	1.33E+00 +/- 1.23E-01	1.47E+00	3.16E-04 +/- 1.28E-05
	22	423.53	1.06E-01 +/- 5.27E-02	1.46E+00	3.09E-04 +/- 1.26E-05
	23	452.01	1.15E-01 +/- 6.47E-02	1.45E+00	2.89E-04 +/- 1.20E-05
	24	662.42	7.02E-02 +/- 3.84E-02	1.36E+00	1.95E-04 +/- 9.62E-06
	25	964.13	2.61E-02 +/- 1.50E-02	1.29E+00	1.39E-04 +/- 5.75E-06
	26	1408.01	8.69E-03 +/- 8.69E-03	1.23E+00	1.15E-04 +/- 7.14E-06
	27	2236.00	1.00E+02 +/- 1.50E+00	1.19E+00	1.32E-04 +/- 3.24E-05

Segment: 4 Detector: DET01 (# 1) Position: 4

Elapsed Live Time: 113.41 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.116 +/- 0.0083
SE-75	264.65	0.000 +/- 0.0000	0.205 +/- 0.0048
SE-75	279.53	0.000 +/- 0.0000	0.205 +/- 0.0056
SE-75	400.65	0.000 +/- 0.0000	0.254 +/- 0.0080

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.74	8.95E-01 +/- 1.91E-01	3.36E+00	1.04E-07 +/- 6.48E-07
	2	50.22	2.56E+00 +/- 6.08E-01	2.53E+00	1.08E-05 +/- 2.70E-05
	3	60.19	9.14E+01 +/- 1.54E+00	2.37E+00	3.63E-05 +/- 5.77E-05
	4	99.27	3.50E+00 +/- 7.02E-01	2.13E+00	2.63E-04 +/- 6.36E-05
	5	103.92	2.28E+00 +/- 5.24E-01	2.11E+00	2.91E-04 +/- 5.31E-05
	6	111.71	1.76E+00 +/- 4.53E-01	2.09E+00	3.35E-04 +/- 3.62E-05
	7	129.29	1.03E+01 +/- 4.97E-01	2.04E+00	4.12E-04 +/- 2.61E-05
	8	185.71	2.20E+00 +/- 3.16E-01	1.89E+00	4.90E-04 +/- 5.73E-05
	9	208.70	1.68E+00 +/- 3.25E-01	1.83E+00	4.80E-04 +/- 5.04E-05
	10	311.90	3.56E-01 +/- 1.75E-01	1.69E+00	3.77E-04 +/- 1.75E-05
	11	333.47	1.51E+00 +/- 1.98E-01	1.67E+00	3.57E-04 +/- 1.65E-05
	12	345.70	7.18E-01 +/- 1.90E-01	1.66E+00	3.46E-04 +/- 1.65E-05
	13	375.76	2.31E+00 +/- 2.30E-01	1.63E+00	3.21E-04 +/- 1.71E-05
M	14	380.95	2.67E-01 +/- 8.89E-02	1.63E+00	3.17E-04 +/- 1.72E-05
m	15	383.37	3.37E-01 +/- 1.01E-01	1.62E+00	3.15E-04 +/- 1.73E-05
	16	393.61	1.08E+00 +/- 1.47E-01	1.62E+00	3.07E-04 +/- 1.75E-05
	17	413.70	2.79E+00 +/- 1.81E-01	1.60E+00	2.94E-04 +/- 1.78E-05
	18	423.29	1.47E-01 +/- 6.99E-02	1.59E+00	2.87E-04 +/- 1.79E-05
	19	452.21	3.84E-01 +/- 7.43E-02	1.57E+00	2.70E-04 +/- 1.78E-05
	20	662.42	8.69E-02 +/- 5.51E-02	1.46E+00	1.90E-04 +/- 1.13E-05
	21	964.13	2.64E-02 +/- 1.52E-02	1.37E+00	1.40E-04 +/- 6.55E-06
	22	1001.03	3.51E-02 +/- 1.76E-02	1.36E+00	1.37E-04 +/- 6.33E-06
	23	2236.00	1.00E+02 +/- 1.50E+00	1.24E+00	7.00E-05 +/- 3.84E-05

Segment: 5 Detector: DET01 (# 1) Position: 5

Elapsed Live Time: 112.21 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.139 +/- 0.0092
SE-75	264.65	0.000 +/- 0.0000	0.244 +/- 0.0057
SE-75	279.53	0.000 +/- 0.0000	0.261 +/- 0.0070
SE-75	400.65	0.000 +/- 0.0000	0.302 +/- 0.0095

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.93	1.18E+00 +/- 2.44E-01	3.11E+00	2.66E-07 +/- 1.76E-06
	2	49.98	6.44E+00 +/- 9.61E-01	2.38E+00	1.58E-05 +/- 4.29E-05
	3	60.19	1.50E+02 +/- 2.28E+00	2.24E+00	4.81E-05 +/- 8.24E-05
	4	95.30	1.37E+00 +/- 6.63E-01	2.03E+00	2.54E-04 +/- 8.20E-05
	5	99.32	1.45E+01 +/- 8.81E-01	2.02E+00	2.77E-04 +/- 7.11E-05
	6	111.73	3.98E+00 +/- 7.02E-01	1.98E+00	3.41E-04 +/- 3.81E-05
M	7	125.96	3.15E+00 +/- 2.69E-01	1.95E+00	3.97E-04 +/- 2.36E-05
m	8	130.02	2.37E+01 +/- 8.19E-01	1.94E+00	4.09E-04 +/- 2.73E-05
	9	185.71	1.52E+00 +/- 4.24E-01	1.79E+00	4.66E-04 +/- 5.86E-05
	10	196.50	6.76E-01 +/- 3.94E-01	1.77E+00	4.63E-04 +/- 5.58E-05
	11	208.73	6.04E+00 +/- 5.16E-01	1.74E+00	4.56E-04 +/- 5.12E-05
	12	256.01	4.21E-01 +/- 2.28E-01	1.65E+00	4.14E-04 +/- 3.05E-05
	13	268.42	4.78E-01 +/- 2.98E-01	1.62E+00	4.02E-04 +/- 2.61E-05
	14	311.90	8.25E-01 +/- 2.78E-01	1.57E+00	3.62E-04 +/- 1.74E-05
M	15	321.23	4.81E-01 +/- 1.53E-01	1.57E+00	3.54E-04 +/- 1.69E-05
m	16	324.51	6.10E-01 +/- 1.75E-01	1.57E+00	3.51E-04 +/- 1.68E-05
M	17	333.51	6.29E+00 +/- 4.10E-01	1.56E+00	3.43E-04 +/- 1.67E-05
m	18	336.52	1.86E+00 +/- 1.94E-01	1.56E+00	3.41E-04 +/- 1.67E-05
M	19	342.35	6.52E-01 +/- 1.26E-01	1.56E+00	3.36E-04 +/- 1.68E-05
m	20	345.75	6.03E+00 +/- 4.18E-01	1.55E+00	3.33E-04 +/- 1.69E-05
	21	369.12	8.44E-01 +/- 3.83E-01	1.54E+00	3.16E-04 +/- 1.77E-05
	22	375.80	1.31E+01 +/- 5.85E-01	1.54E+00	3.11E-04 +/- 1.79E-05
M	23	380.92	2.69E+00 +/- 2.50E-01	1.53E+00	3.07E-04 +/- 1.81E-05
m	24	383.53	2.42E+00 +/- 2.29E-01	1.53E+00	3.06E-04 +/- 1.82E-05
	25	393.65	5.96E+00 +/- 2.85E-01	1.53E+00	2.99E-04 +/- 1.85E-05
	26	413.70	1.66E+01 +/- 4.47E-01	1.51E+00	2.86E-04 +/- 1.90E-05
	27	423.35	7.13E-01 +/- 1.33E-01	1.51E+00	2.81E-04 +/- 1.91E-05
	28	443.98	1.66E-01 +/- 9.55E-02	1.50E+00	2.69E-04 +/- 1.92E-05
	29	452.22	2.06E+00 +/- 1.67E-01	1.49E+00	2.65E-04 +/- 1.91E-05
	30	662.42	6.40E-01 +/- 9.56E-02	1.40E+00	1.90E-04 +/- 1.21E-05
	31	722.01	2.86E-01 +/- 6.83E-02	1.38E+00	1.77E-04 +/- 1.01E-05
	32	769.89	1.74E-01 +/- 5.85E-02	1.36E+00	1.67E-04 +/- 8.82E-06
	33	1001.03	7.51E-02 +/- 3.10E-02	1.31E+00	1.35E-04 +/- 6.17E-06
	34	2236.00	1.00E+02 +/- 1.51E+00	1.21E+00	5.76E-05 +/- 3.29E-05

Segment: 6 Detector: DET01 (# 1) Position: 6

Elapsed Live Time: 110.64 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.285 +/- 0.0122
SE-75	264.65	0.000 +/- 0.0000	0.368 +/- 0.0083
SE-75	279.53	0.000 +/- 0.0000	0.385 +/- 0.0097
SE-75	400.65	0.000 +/- 0.0000	0.421 +/- 0.0123

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.05	5.05E+00 +/- 4.17E-01	2.21E+00	4.72E-07 +/- 2.96E-06
	2	50.36	9.50E+00 +/- 1.12E+00	1.80E+00	2.26E-05 +/- 5.75E-05
	3	60.19	2.05E+02 +/- 2.96E+00	1.73E+00	6.09E-05 +/- 9.95E-05
	4	99.34	2.65E+01 +/- 1.17E+00	1.60E+00	3.06E-04 +/- 7.50E-05
	5	111.80	6.74E+00 +/- 9.23E-01	1.58E+00	3.69E-04 +/- 3.97E-05
M	6	126.02	4.36E+00 +/- 3.33E-01	1.56E+00	4.22E-04 +/- 2.47E-05
m	7	130.00	3.56E+01 +/- 1.05E+00	1.56E+00	4.33E-04 +/- 2.80E-05
	8	144.96	1.61E+00 +/- 6.34E-01	1.54E+00	4.64E-04 +/- 4.51E-05
M	9	161.92	1.99E+00 +/- 4.33E-01	1.52E+00	4.81E-04 +/- 5.65E-05
m	10	165.28	1.40E+00 +/- 3.64E-01	1.52E+00	4.83E-04 +/- 5.76E-05
	11	171.99	9.83E-01 +/- 6.56E-01	1.51E+00	4.85E-04 +/- 5.88E-05
	12	180.16	9.55E-01 +/- 6.30E-01	1.50E+00	4.85E-04 +/- 5.88E-05
	13	196.37	1.67E+00 +/- 6.20E-01	1.49E+00	4.80E-04 +/- 5.54E-05
	14	208.69	9.32E+00 +/- 7.03E-01	1.47E+00	4.72E-04 +/- 5.09E-05
	15	256.18	1.47E+00 +/- 3.36E-01	1.43E+00	4.33E-04 +/- 3.09E-05
	16	279.54	8.90E-01 +/- 3.50E-01	1.41E+00	4.11E-04 +/- 2.35E-05
	17	297.95	6.61E-01 +/- 4.93E-01	1.40E+00	3.95E-04 +/- 1.97E-05
	18	311.90	1.75E+00 +/- 3.76E-01	1.39E+00	3.82E-04 +/- 1.81E-05
M	19	321.76	1.55E+00 +/- 2.91E-01	1.39E+00	3.74E-04 +/- 1.75E-05
m	20	324.39	1.45E+00 +/- 2.74E-01	1.39E+00	3.72E-04 +/- 1.74E-05
M	21	333.49	1.28E+01 +/- 5.91E-01	1.39E+00	3.65E-04 +/- 1.73E-05
m	22	336.48	3.70E+00 +/- 2.76E-01	1.38E+00	3.62E-04 +/- 1.73E-05
M	23	342.26	1.53E+00 +/- 1.83E-01	1.38E+00	3.58E-04 +/- 1.74E-05
m	24	345.72	1.32E+01 +/- 6.00E-01	1.38E+00	3.55E-04 +/- 1.74E-05
	25	368.63	5.54E+00 +/- 4.16E-01	1.37E+00	3.38E-04 +/- 1.82E-05
	26	375.77	2.52E+01 +/- 8.90E-01	1.37E+00	3.33E-04 +/- 1.84E-05
M	27	380.92	6.14E+00 +/- 3.75E-01	1.37E+00	3.30E-04 +/- 1.86E-05
m	28	383.46	5.91E+00 +/- 3.50E-01	1.37E+00	3.28E-04 +/- 1.87E-05
	29	393.67	1.45E+01 +/- 4.83E-01	1.37E+00	3.22E-04 +/- 1.90E-05
	30	413.70	3.68E+01 +/- 7.58E-01	1.36E+00	3.09E-04 +/- 1.95E-05
	31	423.42	2.39E+00 +/- 1.99E-01	1.35E+00	3.04E-04 +/- 1.96E-05
	32	452.18	4.47E+00 +/- 2.71E-01	1.34E+00	2.88E-04 +/- 1.97E-05
	33	584.02	1.26E-01 +/- 6.99E-02	1.30E+00	2.34E-04 +/- 1.58E-05
	34	598.67	1.01E-01 +/- 6.82E-02	1.30E+00	2.29E-04 +/- 1.52E-05
	35	619.58	2.40E-01 +/- 8.56E-02	1.29E+00	2.22E-04 +/- 1.43E-05
	36	646.69	1.47E-01 +/- 7.21E-02	1.28E+00	2.15E-04 +/- 1.32E-05
M	37	659.79	2.38E-01 +/- 6.04E-02	1.28E+00	2.11E-04 +/- 1.27E-05
m	38	663.29	1.40E+00 +/- 1.71E-01	1.28E+00	2.10E-04 +/- 1.26E-05
	39	689.61	1.16E-01 +/- 5.45E-02	1.27E+00	2.03E-04 +/- 1.16E-05

40	722.01	6.32E-01	+/-	9.53E-02	1.26E+00	1.95E-04	+/-	1.05E-05
41	769.90	2.01E-01	+/-	8.07E-02	1.25E+00	1.85E-04	+/-	9.20E-06
42	778.90	4.95E-02	+/-	3.50E-02	1.25E+00	1.83E-04	+/-	8.99E-06

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	964.13	3.55E-02 +/- 2.33E-02	1.22E+00	1.51E-04 +/- 6.52E-06
44	1001.03	1.93E-01 +/- 4.55E-02	1.22E+00	1.45E-04 +/- 6.25E-06
45	2236.00	1.00E+02 +/- 1.52E+00	1.15E+00	4.34E-05 +/- 2.42E-05

Segment: 7 Detector: DET01 (# 1) Position: 7

Elapsed Live Time: 111.18 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.347 +/- 0.0144
SE-75	264.65	0.000 +/- 0.0000	0.450 +/- 0.0100
SE-75	279.53	0.000 +/- 0.0000	0.448 +/- 0.0110
SE-75	400.65	0.000 +/- 0.0000	0.497 +/- 0.0138

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.14	4.38E+00 +/- 3.82E-01	1.98E+00	5.23E-09 +/- 2.98E-08
	2	50.28	8.01E+00 +/- 1.05E+00	1.66E+00	3.02E-06 +/- 7.03E-06
	3	60.19	1.79E+02 +/- 2.64E+00	1.60E+00	1.61E-05 +/- 2.39E-05
	4	99.35	2.31E+01 +/- 1.07E+00	1.50E+00	2.43E-04 +/- 5.52E-05
	5	111.71	9.28E+00 +/- 7.78E-01	1.48E+00	3.35E-04 +/- 3.48E-05
M	6	125.91	3.76E+00 +/- 3.12E-01	1.46E+00	4.24E-04 +/- 2.46E-05
m	7	130.02	2.97E+01 +/- 9.47E-01	1.46E+00	4.45E-04 +/- 2.78E-05
	8	144.77	2.03E+00 +/- 6.34E-01	1.44E+00	5.04E-04 +/- 4.47E-05
	9	165.55	6.95E-01 +/- 3.96E-01	1.42E+00	5.48E-04 +/- 5.93E-05
	10	196.15	1.78E+00 +/- 5.84E-01	1.39E+00	5.56E-04 +/- 5.80E-05
	11	204.22	2.96E+00 +/- 5.78E-01	1.38E+00	5.51E-04 +/- 5.50E-05
	12	208.71	5.29E+00 +/- 7.45E-01	1.38E+00	5.47E-04 +/- 5.32E-05
	13	256.05	1.19E+00 +/- 4.37E-01	1.34E+00	4.90E-04 +/- 3.18E-05
	14	298.04	1.53E+00 +/- 4.90E-01	1.33E+00	4.34E-04 +/- 2.02E-05
	15	311.90	2.19E+00 +/- 4.56E-01	1.32E+00	4.17E-04 +/- 1.86E-05
M	16	321.59	1.35E+00 +/- 2.63E-01	1.32E+00	4.05E-04 +/- 1.79E-05
m	17	324.09	1.38E+00 +/- 2.62E-01	1.32E+00	4.02E-04 +/- 1.78E-05
M	18	333.53	1.18E+01 +/- 5.64E-01	1.31E+00	3.91E-04 +/- 1.76E-05
m	19	336.57	3.51E+00 +/- 2.64E-01	1.31E+00	3.88E-04 +/- 1.76E-05
M	20	342.30	1.28E+00 +/- 1.66E-01	1.31E+00	3.82E-04 +/- 1.76E-05
m	21	345.72	1.14E+01 +/- 5.56E-01	1.31E+00	3.78E-04 +/- 1.76E-05
	22	369.00	1.16E+00 +/- 5.16E-01	1.30E+00	3.55E-04 +/- 1.81E-05

	23	375.77	2.33E+01	+/-	8.15E-01	1.30E+00	3.48E-04	+/- 1.82E-05
M	24	380.94	5.28E+00	+/-	3.48E-01	1.30E+00	3.44E-04	+/- 1.83E-05
m	25	383.52	4.96E+00	+/-	3.24E-01	1.30E+00	3.41E-04	+/- 1.84E-05
	26	393.64	1.14E+01	+/-	4.33E-01	1.29E+00	3.33E-04	+/- 1.86E-05
	27	413.70	3.23E+01	+/-	6.86E-01	1.28E+00	3.17E-04	+/- 1.88E-05
	28	423.32	2.50E+00	+/-	2.23E-01	1.28E+00	3.10E-04	+/- 1.88E-05
	29	446.29	2.35E-01	+/-	1.43E-01	1.27E+00	2.94E-04	+/- 1.87E-05
	30	452.16	4.05E+00	+/-	2.25E-01	1.27E+00	2.90E-04	+/- 1.86E-05
	31	567.67	8.47E-02	+/-	4.97E-02	1.24E+00	2.33E-04	+/- 1.51E-05
	32	619.58	2.84E-01	+/-	8.25E-02	1.23E+00	2.15E-04	+/- 1.32E-05
	33	640.61	1.86E-01	+/-	8.48E-02	1.23E+00	2.09E-04	+/- 1.25E-05
	34	646.72	1.78E-01	+/-	8.54E-02	1.23E+00	2.07E-04	+/- 1.23E-05
	35	662.42	1.19E+00	+/-	1.34E-01	1.22E+00	2.03E-04	+/- 1.17E-05
	36	722.01	5.04E-01	+/-	8.87E-02	1.21E+00	1.89E-04	+/- 9.99E-06
	37	756.98	6.42E-02	+/-	3.74E-02	1.21E+00	1.81E-04	+/- 9.17E-06
	38	1001.03	2.10E-01	+/-	5.19E-02	1.17E+00	1.45E-04	+/- 6.33E-06
	39	1408.01	8.93E-03	+/-	8.93E-03	1.14E+00	1.05E-04	+/- 7.16E-06
	40	2236.00	1.00E+02	+/-	1.52E+00	1.12E+00	5.07E-05	+/- 2.69E-05
	41	2295.11	5.17E-02	+/-	2.64E-02	1.12E+00	4.77E-05	+/- 2.77E-05

Segment: 8 Detector: DET01 (# 1) Position: 8

Elapsed Live Time: 113.39 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.397 +/- 0.0134
SE-75	264.65	0.000 +/- 0.0000	0.468 +/- 0.0103
SE-75	279.53	0.000 +/- 0.0000	0.481 +/- 0.0115
SE-75	400.65	0.000 +/- 0.0000	0.523 +/- 0.0141

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)			Correction Factor	Original Efficiency		
	1	32.42	8.65E-01	+/-	2.24E-01	1.83E+00	8.16E-06	+/-	7.81E-06
	2	49.75	3.17E+00	+/-	6.55E-01	1.57E+00	5.82E-05	+/-	2.90E-05
	3	60.20	5.68E+01	+/-	1.13E+00	1.51E+00	1.10E-04	+/-	3.84E-05
	4	99.37	5.74E+00	+/-	5.73E-01	1.43E+00	3.25E-04	+/-	3.31E-05
	5	111.76	2.26E+00	+/-	4.45E-01	1.41E+00	3.75E-04	+/-	2.72E-05
M	6	125.93	7.98E-01	+/-	1.67E-01	1.40E+00	4.19E-04	+/-	2.31E-05
m	7	130.05	6.54E+00	+/-	4.54E-01	1.40E+00	4.29E-04	+/-	2.26E-05
	8	204.24	7.33E-01	+/-	2.87E-01	1.35E+00	4.76E-04	+/-	2.61E-05
	9	208.71	9.14E-01	+/-	3.46E-01	1.34E+00	4.74E-04	+/-	2.60E-05
	10	311.90	5.73E-01	+/-	2.22E-01	1.29E+00	3.88E-04	+/-	1.78E-05
	11	333.58	2.79E+00	+/-	2.55E-01	1.29E+00	3.69E-04	+/-	1.62E-05

12	345.71	1.94E+00	+/- 2.60E-01	1.28E+00	3.59E-04	+/- 1.54E-05
13	368.18	7.64E-01	+/- 2.15E-01	1.28E+00	3.40E-04	+/- 1.42E-05
14	375.76	4.53E+00	+/- 3.64E-01	1.27E+00	3.34E-04	+/- 1.38E-05
M 15	380.89	9.22E-01	+/- 1.43E-01	1.27E+00	3.30E-04	+/- 1.36E-05
m 16	383.51	9.24E-01	+/- 1.42E-01	1.27E+00	3.28E-04	+/- 1.35E-05
17	393.58	2.18E+00	+/- 1.73E-01	1.27E+00	3.21E-04	+/- 1.31E-05
18	413.70	6.05E+00	+/- 2.56E-01	1.26E+00	3.06E-04	+/- 1.25E-05
19	423.49	3.16E-01	+/- 9.74E-02	1.26E+00	3.00E-04	+/- 1.22E-05
20	452.22	6.10E-01	+/- 1.05E-01	1.25E+00	2.82E-04	+/- 1.16E-05
21	662.42	2.73E-01	+/- 5.66E-02	1.20E+00	1.93E-04	+/- 9.41E-06
22	722.01	8.22E-02	+/- 4.56E-02	1.20E+00	1.78E-04	+/- 8.71E-06
23	1001.03	5.23E-02	+/- 2.13E-02	1.16E+00	1.35E-04	+/- 5.36E-06
24	1112.12	5.23E-02	+/- 2.13E-02	1.15E+00	1.26E-04	+/- 4.65E-06
25	2236.00	1.00E+02	+/- 1.50E+00	1.11E+00	1.19E-04	+/- 2.92E-05

Segment: 9 Detector: DET01 (# 1) Position: 9

Elapsed Live Time: 114.08 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.428 +/- 0.0145
SE-75	264.65	0.000 +/- 0.0000	0.501 +/- 0.0109
SE-75	279.53	0.000 +/- 0.0000	0.509 +/- 0.0120
SE-75	400.65	0.000 +/- 0.0000	0.558 +/- 0.0148

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.18	9.89E+00 +/- 4.89E-01	1.46E+00	1.65E-05 +/- 2.58E-05
2	99.62	9.01E-01 +/- 3.45E-01	1.39E+00	2.37E-04 +/- 5.54E-05
3	129.29	6.15E-01 +/- 2.66E-01	1.36E+00	4.21E-04 +/- 2.66E-05
4	375.92	1.12E-01 +/- 7.47E-02	1.25E+00	3.18E-04 +/- 1.78E-05
5	413.70	1.05E-01 +/- 5.75E-02	1.23E+00	2.88E-04 +/- 1.83E-05
6	511.95	1.63E-01 +/- 5.91E-02	1.21E+00	2.33E-04 +/- 1.66E-05
7	2236.00	1.00E+02 +/- 1.50E+00	1.10E+00	6.12E-05 +/- 3.31E-05

Segment: 10 Detector: DET01 (# 1) Position: 10

Elapsed Live Time: 114.20 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.430 +/- 0.0143
SE-75	264.65	0.000 +/- 0.0000	0.516 +/- 0.0112
SE-75	279.53	0.000 +/- 0.0000	0.525 +/- 0.0123
SE-75	400.65	0.000 +/- 0.0000	0.558 +/- 0.0147

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.10	3.81E+00 +/- 3.57E-01	1.46E+00	1.37E-04 +/- 4.88E-05
2	136.00	3.56E-01 +/- 2.47E-01	1.33E+00	4.27E-04 +/- 2.17E-05
3	244.70	2.08E-01 +/- 1.21E-01	1.28E+00	4.37E-04 +/- 2.32E-05
4	662.42	3.81E-02 +/- 2.58E-02	1.18E+00	2.06E-04 +/- 1.03E-05
5	1408.01	8.63E-03 +/- 8.63E-03	1.12E+00	1.09E-04 +/- 6.83E-06
6	2236.00	1.00E+02 +/- 1.49E+00	1.10E+00	9.04E-05 +/- 2.29E-05

Segment: 11 Detector: DET01 (# 1) Position: 11

Elapsed Live Time: 114.23 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.504 +/- 0.0164
SE-75	264.65	0.000 +/- 0.0000	0.556 +/- 0.0120
SE-75	279.53	0.000 +/- 0.0000	0.561 +/- 0.0131
SE-75	400.65	0.000 +/- 0.0000	0.613 +/- 0.0160

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.30	5.74E-01 +/- 2.25E-01	1.37E+00	5.02E-04 +/- 8.40E-04
2	311.90	1.47E-01 +/- 1.02E-01	1.22E+00	3.53E-04 +/- 1.69E-05
3	662.42	3.08E-02 +/- 2.37E-02	1.15E+00	2.15E-04 +/- 1.30E-05
4	1001.03	2.44E-02 +/- 2.07E-02	1.12E+00	1.39E-04 +/- 6.19E-06
5	1173.99	6.02E-02 +/- 2.64E-02	1.11E+00	1.16E-04 +/- 5.07E-06
6	2236.00	1.00E+02 +/- 1.50E+00	1.08E+00	5.79E-05 +/- 3.30E-05

Segment: 12 Detector: DET01 (# 1) Position: 12

Elapsed Live Time: 114.28 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.453 +/- 0.0150
SE-75	264.65	0.000 +/- 0.0000	0.525 +/- 0.0114
SE-75	279.53	0.000 +/- 0.0000	0.526 +/- 0.0124
SE-75	400.65	0.000 +/- 0.0000	0.563 +/- 0.0149

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.18	8.52E-01 +/- 2.20E-01	1.43E+00	1.30E-05 +/- 2.08E-05
2	185.71	2.54E-01 +/- 1.94E-01	1.30E+00	5.47E-04 +/- 6.36E-05
3	400.66	6.36E-02 +/- 4.47E-02	1.23E+00	2.98E-04 +/- 1.83E-05
4	413.70	6.27E-02 +/- 4.06E-02	1.23E+00	2.87E-04 +/- 1.84E-05
5	964.13	8.63E-03 +/- 8.63E-03	1.14E+00	1.38E-04 +/- 6.29E-06
6	1112.12	8.63E-03 +/- 8.63E-03	1.13E+00	1.27E-04 +/- 5.46E-06
7	2236.00	1.00E+02 +/- 1.49E+00	1.10E+00	6.48E-05 +/- 3.54E-05

Segment: 13 Detector: DET01 (# 1) Position: 13

Elapsed Live Time: 114.28 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.504 +/- 0.0167
SE-75	264.65	0.000 +/- 0.0000	0.566 +/- 0.0122
SE-75	279.53	0.000 +/- 0.0000	0.570 +/- 0.0133
SE-75	400.65	0.000 +/- 0.0000	0.610 +/- 0.0159

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
M	1	57.32	5.45E-01 +/- 1.39E-01	1.38E+00	1.60E-05 +/- 3.07E-05
m	2	59.80	5.38E-01 +/- 1.29E-01	1.37E+00	2.19E-05 +/- 3.77E-05
	3	316.18	7.57E-02 +/- 4.53E-02	1.22E+00	3.70E-04 +/- 1.77E-05
	4	400.66	1.47E-01 +/- 4.22E-02	1.20E+00	2.98E-04 +/- 1.92E-05
	5	559.37	6.87E-02 +/- 4.44E-02	1.17E+00	2.21E-04 +/- 1.63E-05
	6	1085.91	2.02E-02 +/- 1.65E-02	1.12E+00	1.32E-04 +/- 5.78E-06
	7	1112.12	2.60E-02 +/- 1.50E-02	1.11E+00	1.30E-04 +/- 5.64E-06
	8	2236.00	1.00E+02 +/- 1.50E+00	1.08E+00	5.36E-05 +/- 3.03E-05

Segment: 14 Detector: DET01 (# 1) Position: 14

Elapsed Live Time: 114.32 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.546 +/- 0.0174
SE-75	264.65	0.000 +/- 0.0000	0.598 +/- 0.0129
SE-75	279.53	0.000 +/- 0.0000	0.613 +/- 0.0142
SE-75	400.65	0.000 +/- 0.0000	0.661 +/- 0.0170

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	49.32	5.24E-01 +/- 2.06E-01	1.36E+00	4.34E-05 +/- 1.11E-04
2	400.66	4.52E-02 +/- 2.96E-02	1.17E+00	3.06E-04 +/- 1.78E-05
3	778.90	3.02E-02 +/- 2.39E-02	1.12E+00	1.70E-04 +/- 8.37E-06
4	1112.12	1.72E-02 +/- 1.22E-02	1.09E+00	1.26E-04 +/- 5.44E-06
5	2236.00	1.00E+02 +/- 1.49E+00	1.07E+00	7.64E-05 +/- 4.15E-05

Segment: 15 Detector: DET01 (# 1) Position: 15

Elapsed Live Time: 114.32 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.546 +/- 0.0165
SE-75	264.65	0.000 +/- 0.0000	0.609 +/- 0.0131
SE-75	279.53	0.000 +/- 0.0000	0.602 +/- 0.0140
SE-75	400.65	0.000 +/- 0.0000	0.645 +/- 0.0166

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.25	3.18E-01 +/- 1.25E-01	1.32E+00	1.25E-05 +/- 2.04E-05
2	400.66	1.13E-01 +/- 4.52E-02	1.18E+00	2.70E-04 +/- 1.63E-05
3	722.01	4.43E-02 +/- 3.59E-02	1.13E+00	1.64E-04 +/- 9.17E-06
4	778.90	4.32E-02 +/- 1.93E-02	1.12E+00	1.56E-04 +/- 8.00E-06
5	867.39	2.54E-02 +/- 2.00E-02	1.12E+00	1.44E-04 +/- 6.82E-06
6	2236.00	1.00E+02 +/- 1.50E+00	1.07E+00	3.18E-05 +/- 1.80E-05

Segment: 16 Detector: DET01 (# 1) Position: 16

Elapsed Live Time: 114.35 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.655 +/- 0.0203
SE-75	264.65	0.000 +/- 0.0000	0.721 +/- 0.0155
SE-75	279.53	0.000 +/- 0.0000	0.735 +/- 0.0168
SE-75	400.65	0.000 +/- 0.0000	0.753 +/- 0.0191

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.29	2.40E-01 +/- 1.04E-01	1.22E+00	5.65E-05 +/- 2.42E-05
2	413.70	7.42E-02 +/- 4.38E-02	1.11E+00	1.79E-04 +/- 8.85E-06
3	1085.91	4.64E-02 +/- 2.72E-02	1.07E+00	7.51E-05 +/- 3.53E-06
4	2236.00	1.00E+02 +/- 1.49E+00	1.05E+00	6.28E-05 +/- 1.87E-05

Summed Spectrum

Peak Locate Report

Sample ID: LL85001753
Peak Locate Performed on: 4-01-08 5:03:55 PM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192
Peak Search Sensitivity: 5.00

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
1	64.76	0.1760	32.05	14.06
2	100.74	0.1880	50.04	10.40
3	121.06	0.0441	60.19	224.49
4	199.34	0.0750	99.33	73.13
5	224.14	0.1063	111.74	37.10
6	260.77	0.0710	130.05	84.86
7	290.24	0.2357	144.79	9.07
8	344.85	0.2858	172.09	5.44
9	373.50	0.2002	186.41	10.26
10	393.15	0.2193	196.24	9.49
11	409.17	0.1136	204.25	32.74
12	418.08	0.0931	208.71	49.27
13	512.95	0.2220	256.14	8.72
14	625.75	0.1604	312.54	14.93
15	643.46	0.2586	321.58	5.91
16	649.65	0.2625	324.31	6.23
17	667.67	0.0951	333.52	43.44
18	674.10	0.1696	336.47	17.24
19	684.83	0.2370	342.27	8.92
20	692.10	0.0939	345.74	46.14
21	738.28	0.1480	368.81	12.92
22	752.21	0.0681	375.77	82.14
23	762.16	0.1270	380.93	28.10
24	767.94	0.1353	383.50	25.26
25	787.94	0.0938	393.64	44.27
26	829.57	0.0670	414.45	78.13
27	847.41	0.1310	423.37	20.86
28	905.02	0.1170	452.18	28.99
29	1023.44	0.2159	511.39	6.21
30	1294.21	0.2650	646.77	5.38
31	1327.16	0.1562	663.25	15.33
32	1446.08	0.1935	722.70	9.97
33	2004.95	0.2366	1002.14	6.27
34	4472.84	0.0264	2236.08	412.08

Errors quoted at 1.000 sigma

Summed Spectrum

Peak Analysis Report

Sample ID: LL85001753
Peak Analysis Performed on: 4-01-08 5:03:55 PM
Peak Analysis From Channel: 40
Peak Analysis To Channel: 8192

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	1	61-	71	64.76	32.05	1.86E+03	91.93	2.39E+03
	2	94-	107	100.74	50.04	4.68E+03	270.81	2.39E+04
	3	114-	127	121.06	60.19	9.20E+04	386.82	2.08E+04
	4	194-	203	199.34	99.33	9.80E+03	243.02	2.17E+04
	5	217-	227	224.14	111.74	3.87E+03	186.12	1.28E+04
	6	256-	267	260.77	130.05	1.19E+04	195.88	1.04E+04
	7	283-	295	290.24	144.79	6.83E+02	161.13	9.56E+03
	8	337-	351	344.85	172.09	5.54E+02	171.06	9.96E+03
	9	371-	378	373.50	186.41	4.36E+02	104.53	5.16E+03
	10	386-	400	393.15	196.24	4.90E+02	158.90	8.60E+03
	11	404-	413	409.17	204.25	1.14E+03	130.60	6.92E+03
	12	413-	425	418.08	208.71	1.96E+03	166.00	9.24E+03
	13	510-	518	512.95	256.14	3.52E+02	80.94	2.88E+03
	14	621-	630	625.75	312.54	7.53E+02	75.64	2.20E+03
M	15	639-	657	643.82	321.58	4.44E+02	56.11	2.09E+03
m	16	639-	657	649.28	324.31	4.45E+02	55.84	2.44E+03
M	17	660-	681	667.70	333.52	4.00E+03	109.41	1.88E+03
m	18	660-	681	673.61	336.47	1.14E+03	52.84	2.08E+03
M	19	681-	699	685.20	342.27	4.82E+02	36.87	1.50E+03
m	20	681-	699	692.14	345.74	3.96E+03	108.48	1.25E+03
	21	730-	745	738.28	368.81	1.47E+03	93.85	2.44E+03
	22	745-	759	752.21	375.77	8.03E+03	156.12	5.39E+03
M	23	759-	775	762.54	380.93	1.77E+03	66.18	1.24E+03
m	24	759-	775	767.67	383.50	1.70E+03	62.57	8.20E+02
	25	780-	795	787.94	393.64	4.02E+03	85.20	1.08E+03
	26	821-	837	829.57	414.45	1.09E+04	116.83	8.77E+02
	27	842-	851	847.41	423.37	6.64E+02	41.47	4.69E+02
	28	900-	912	905.02	452.18	1.33E+03	47.73	3.52E+02
	29	1015-	1031	1023.44	511.39	3.74E+02	33.45	2.38E+02
	30	1290-	1298	1294.21	646.77	3.17E+01	17.08	1.20E+02
	31	1323-	1335	1327.16	663.25	3.75E+02	28.35	1.57E+02
	32	1442-	1454	1446.08	722.70	1.73E+02	20.96	9.98E+01
	33	2001-	2013	2004.95	1002.14	5.40E+01	13.11	4.30E+01
	34	4462-	4478	4472.84	2236.08	1.84E+05	428.99	9.98E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Summed Spectrum

Nuclide Identification Report

Sample ID: LL85001753
Nuclide Library Used: C:\WAS\NLIB\LLNL.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (uCi/)	Activity Uncertainty
Pulser	0.999	2236.00*	100.00	7.465E+02	1.937E+02
U-235	0.966	185.71*	57.20	5.789E-01	1.396E-01
Np-237	0.739	300.10	6.63		
		311.90*	38.60	1.752E+00	1.767E-01
U-238	0.916	1001.03*	0.84	1.442E+01	3.510E+00
Pu-239	0.961	413.70*	0.00	8.089E+05	1.769E+04
Pu-239A	0.960	129.29*	0.01	1.736E+05	5.372E+03
Am-241	0.953	662.42*	0.00	1.524E+05	1.161E+04
Am-241D	0.966	722.01*	0.00	1.538E+05	1.868E+04

* = Energy line found in the spectrum.
Energy Tolerance : 1.500 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 4-01-08 5:03:55 PM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
1	32.05	1.6284E+01	4.94
2	50.04	4.0922E+01	5.79
3	60.19	8.0365E+02	0.49
4	99.33	8.5670E+01	2.49
5	111.74	3.3802E+01	4.82
7	144.79	5.9677E+00	23.59
8	172.09	4.8392E+00	30.89
10	196.24	4.2781E+00	32.46
11	204.25	9.9711E+00	11.45
12	208.71	1.7100E+01	8.49
13	256.14	3.0769E+00	22.99
M 15	321.58	3.8814E+00	12.63
m 16	324.31	3.8928E+00	12.54
M 17	333.52	3.4925E+01	2.75
m 18	336.47	9.9372E+00	4.65
M 19	342.27	4.2084E+00	7.66
m 20	345.74	3.4628E+01	2.75
21	368.81	1.2886E+01	6.37
22	375.77	7.0164E+01	1.96
M 23	380.93	1.5435E+01	3.76
m 24	383.50	1.4855E+01	3.69
25	393.64	3.5134E+01	2.13
27	423.37	5.8065E+00	6.25
28	452.18	1.1642E+01	3.59
29	511.39	3.2666E+00	8.95
30	646.77	2.7686E-01	53.92

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Combined Segment NID

NID Results Combiner Mode: Sum Activities

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		8.19E+02	+/-	1.21E+02	2.99E-02	+/-	4.42E-03
SE-75	<	1.95E-01	+/-	1.28E-02	< 7.12E-06	+/-	4.68E-07
EU-152x	<	1.88E-01	+/-	1.30E-02	< 6.86E-06	+/-	4.73E-07
U-233		1.29E+03	+/-	9.00E+02	4.72E-02	+/-	3.29E-02
U-235		8.25E-01	+/-	1.19E-01	3.01E-05	+/-	4.35E-06
Np-237		1.72E+00	+/-	1.99E-01	6.27E-05	+/-	7.26E-06
Pu-238	<	1.60E+04	+/-	1.74E+03	< 5.84E-01	+/-	6.36E-02
U-238		1.63E+01	+/-	2.32E+00	5.93E-04	+/-	8.47E-05
Pu-239		7.97E+05	+/-	2.84E+04	2.91E+01	+/-	1.04E+00
Pu-239A		2.06E+05	+/-	6.75E+03	7.52E+00	+/-	2.46E-01
Am-241		1.62E+05	+/-	1.22E+04	5.90E+00	+/-	4.44E-01
Am-241D		1.44E+05	+/-	1.54E+04	5.24E+00	+/-	5.60E-01
Pu-241		2.81E+04	+/-	2.03E+04	1.03E+00	+/-	7.42E-01

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
U-233	1.34E-01	+/-	9.36E-02
U-235	3.82E-01	+/-	5.52E-02
Np-237	2.44E-03	+/-	2.83E-04
U-238	4.84E+01	+/-	6.92E+00
Pu-239	1.28E+01	+/-	4.57E-01
Pu-239A	3.32E+00	+/-	1.09E-01
Am-241	4.72E-02	+/-	3.55E-03
Pu-241	2.72E-04	+/-	1.97E-04

Summed Spectrum

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		7.47E+02	+/-	1.94E+02	2.72E-02	+/-	7.07E-03
SE-75	<	5.65E-01	+/-	5.92E-03	< 2.06E-05	+/-	2.16E-07
EU-152x	<	4.71E-01	+/-	9.46E-03	< 1.72E-05	+/-	3.45E-07
U-233	<	2.97E+04	+/-	7.12E+02	< 1.08E+00	+/-	2.60E-02
U-235		5.79E-01	+/-	1.40E-01	2.11E-05	+/-	5.10E-06
Np-237		1.75E+00	+/-	1.77E-01	6.39E-05	+/-	6.45E-06
Pu-238	<	5.26E+04	+/-	1.16E+03	< 1.92E+00	+/-	4.22E-02
U-238		1.44E+01	+/-	3.51E+00	5.26E-04	+/-	1.28E-04
Pu-239		8.09E+05	+/-	1.77E+04	2.95E+01	+/-	6.46E-01
Pu-239A		1.74E+05	+/-	5.37E+03	6.34E+00	+/-	1.96E-01
Am-241		1.52E+05	+/-	1.16E+04	5.56E+00	+/-	4.24E-01
Am-241D		1.54E+05	+/-	1.87E+04	5.61E+00	+/-	6.82E-01
Pu-241	<	2.78E+05	+/-	6.07E+03	< 1.02E+01	+/-	2.22E-01

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
U-235	2.68E-01	+/-	6.47E-02
Np-237	2.49E-03	+/-	2.51E-04
U-238	4.30E+01	+/-	1.05E+01
Pu-239	1.30E+01	+/-	2.85E-01
Pu-239A	2.80E+00	+/-	8.65E-02
Am-241	4.45E-02	+/-	3.39E-03

Final Non-Uniformity Results

Source Longitudinal Ratio:	0.000	+/-	0.0000
Matrix Longitudinal Ratio:	0.750	+/-	0.0689
Source Vertical Ratio:	0.000	+/-	0.0000
Matrix Vertical Ratio:	0.727	+/-	0.0185

NUDS could not find the transmission peak in one radial segment.
NUDS could not find the source peak in any radial segment.

Radioassay Data Sheet — Wed Apr 2 10:29:09 2008
Procedure ID & Rev: WCP-55 03/07/2002 — Software Version: GWAS v2.3bGEN

Drum ID	: S100-2652	Gross Weight (kg)	: 54.0
Sequence Number	: 2652	Fill Height (%)	: 100.0
Assay Date	: 04/02/08 07:34:26	Density (g/cc)	: 0.11
		Net Weight (kg)	: 22.20
Batch Number	:	Waste Matrix Code	:
Site ID	:	TRUCON	:

	Errors at 1.00 Sigma		
TRU Alpha Activity Concentration:	4.29e-04	+/- 5.26e-05	Ci/g
Total Pu-239 Equiv Activity:	9.92e+00	+/- 1.17e+00	Ci
Total Pu-239 Fissile Gram Equiv:	1.06e+02	+/- 1.80e+01	g
Decay Heat:	3.04e-01	+/- 3.68e-02	W
Total Pu Mass:	1.12e+02	+/- 1.80e+01	g
TMU:	17.09%		
Waste Classification:	TRU		

Isotopics Data

Measured Isotope	MGA Report Weight %	MGA Report % Err (1.00 Sigma)
Pu-238	8.42e-03	6.83e+00
Pu-239	9.41e+01	5.01e-02
Pu-240	5.66e+00	8.25e-01
Pu-241	1.79e-01	6.64e-01
Pu-242	3.12e-02	1.00e+01
Am-241	4.99e-01	4.61e-01
Am-243	0.00e+00	0.00e+00
Np-237	0.00e+00	0.00e+00
U-235	0.00e+00	0.00e+00

Activity Errors

Isotope	Isotope Mass (g)	1.00 Sigma Error/Isotope Mass (g)	Alpha Activity/ Isotope (Ci)	1.00 Sigma Error/Isotope (Ci)	MDA (g)
Pu-238	9.42e-03	1.73e-03	1.61e-01	2.97e-02	3.04e-03
Pu-239	1.05e+02	1.80e+01	6.53e+00	1.12e+00	3.20e-01
Pu-240	6.33e+00	1.08e+00	1.44e+00	2.46e-01	0.00e+00
Pu-241	2.00e-01	3.42e-02	2.07e+01	3.54e+00	5.34e-03
Pu-242	3.49e-02	6.90e-03	1.37e-04	2.71e-05	0.00e+00
Am-241	4.10e-01	6.89e-02	1.40e+00	2.36e-01	6.57e-03
Am-243	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
Np-237	1.29e-02	2.23e-03	9.10e-06	1.57e-06	1.34e-03
*U-235	<LLD	0.00e+00	0.00e+00	0.00e+00	3.31e-01
*U-238	<LLD	0.00e+00	0.00e+00	0.00e+00	1.70e+01
*U-233	<LLD	0.00e+00	0.00e+00	0.00e+00	3.20e+00
CS-137	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
U-234	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
SR-90	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00

* = Activity/Mass below detectable limit.

Operator Signature _____ Date _____

Reviewer Signature _____ Date _____

AUTOMATED INDEPENDENT TECHNICAL REVIEW BASED ON WCP-55 03/07/2002

Software Version: GWAS v2.3bGEN
Counter Number: SGS
Data Review for Container: S100-2652
Item Description Code: \Count Type: DEBRIS
Sequence Number: 2652
Assayed on: 04/02/08 07:34:26
Report Generated: 04/02/08 10:28:54
AITR Version 1.4

Section 1 MGA Analysis Review Using MGA Isotopics

REVIEW Pu-240 Wt Pct +2 Sigma error <5.76> less than <5.87> Review MGA Results
Pu-240 Wt Pct error <0.82> is within limits
Pu-238 Wt Pct error <6.83> is within limits
REVIEW QFIT <1.43> > <1.20> Review MGA Results

Section 2 - CONTAINER DENSITY REVIEW

Container density <0.107> g/cc is within UPPER and LOWER limits

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Section 3 - SELF-ABSORPTION REVIEW

Pu-239/Pu-239a ratio <1.54e+00> is within limits

Section 4 - PULSER REVIEW

DEAD TIME percentage <1.53> is acceptable in Segment 1
Pulser value <0.99> is within range in Segment 1
DEAD TIME percentage <1.92> is acceptable in Segment 2
Pulser value <0.99> is within range in Segment 2
DEAD TIME percentage <4.37> is acceptable in Segment 3
Pulser value <0.99> is within range in Segment 3
DEAD TIME percentage <14.83> is acceptable in Segment 4
Pulser value <1.00> is within range in Segment 4
DEAD TIME percentage <26.90> is acceptable in Segment 5
Pulser value <1.00> is within range in Segment 5
DEAD TIME percentage <26.86> is acceptable in Segment 6
Pulser value <0.98> is within range in Segment 6
DEAD TIME percentage <16.75> is acceptable in Segment 7
Pulser value <1.00> is within range in Segment 7
DEAD TIME percentage <6.02> is acceptable in Segment 8
Pulser value <1.00> is within range in Segment 8
DEAD TIME percentage <2.03> is acceptable in Segment 9
Pulser value <0.99> is within range in Segment 9
DEAD TIME percentage <1.52> is acceptable in Segment 10
Pulser value <1.00> is within range in Segment 10
DEAD TIME percentage <1.28> is acceptable in Segment 11
Pulser value <0.99> is within range in Segment 11
DEAD TIME percentage <1.03> is acceptable in Segment 12
Pulser value <0.99> is within range in Segment 12
DEAD TIME percentage <0.89> is acceptable in Segment 13
Pulser value <0.99> is within range in Segment 13
DEAD TIME percentage <0.76> is acceptable in Segment 14
Pulser value <0.98> is within range in Segment 14
DEAD TIME percentage <0.69> is acceptable in Segment 15
Pulser value <0.99> is within range in Segment 15
DEAD TIME percentage <0.68> is acceptable in Segment 16
Pulser value <0.98> is within range in Segment 16

Section 5 - TRANSMISSION REVIEW

Transmission results are acceptable in Segment 1
Transmission results are acceptable in Segment 2
Transmission results are acceptable in Segment 3
Transmission results are acceptable in Segment 4
Transmission results are acceptable in Segment 5
Transmission results are acceptable in Segment 6
REVIEW Low Transmission Line <136.000000> < <0.001> found in Segment 7
Transmission results are acceptable in Segment 8

Transmission results are acceptable in Segment 9
Transmission results are acceptable in Segment 10
Transmission results are acceptable in Segment 11
Transmission results are acceptable in Segment 12
Transmission results are acceptable in Segment 13
Transmission results are acceptable in Segment 14
Transmission results are acceptable in Segment 15
Transmission results are acceptable in Segment 16

Section 6 - REDUCED CHI SQUARED FIT REVIEW

REVIEW Reduced chi squared fit value <1.25e+01> exceeds limit <3.00> for energy peak <129.99> in Segment 4
REVIEW Reduced chi squared fit value <1.14e+01> exceeds limit <3.00> for energy peak <129.94> in Segment 5
REVIEW Reduced chi squared fit value <1.33e+01> exceeds limit <3.00> for energy peak <129.94> in Segment 6
REVIEW Reduced chi squared fit value <8.86e+00> exceeds limit <3.00> for energy peak <129.98> in Segment 7
REVIEW Reduced chi squared fit value <3.16e+00> exceeds limit <3.00> for energy peak <129.99> in Segment 8

Section 7 - FGE MASS REVIEW

REVIEW FGE Mass <123.89> > <110.00>

Section 8 - PERCENT FULL REVIEW

Percent Full <100.0> is above lower limit <30.0>

Section 9 - IDC COUNT TYPE REVIEW

REVIEW IDC is not available

Section 10 - AM-241 & NP-237 INTERFERENCE REVIEW

Am-241 ratio <256.71> is above lower limit <200.00>
Np-237 ratio <8156.66> is above lower limit <125.00>

Section 11 - PU-239 CALIBRATION RANGE REVIEW

Pu-239 <105.30> is within limits

Section 12 - CS-137 INTERFERENCE REVIEW

Am-241D > Am-241A: Calculation not performed

Independent Reviewer:_____Date:_____

INDEPENDENT TECHNICAL REVIEW COMMENT SHEET

Counter Number: SGS
Data Review for Container: S100-2652
Item Description Code:
Sequence Number: 2652
Assayed on: 04/02/08 07:34:26
AITR Version 1.4

Comments	Disposition
SECTION 1 - MGA Pu-240 Wt Pct +2 Sigma error is less than lower limit. QFIT is greater than upper limit.	
SECTION 5 - TRANSMISSION Low Transmission Line 136.0 less than 0.001 found in Segment 7	
SECTION 6 - REDUCED CHI SQUARED FIT Chi square failure for 130.0 Kev in Segment 4 Chi square failure for 129.9 Kev in Segment 5 Chi square failure for 129.9 Kev in Segment 6 Chi square failure for 130.0 Kev in Segment 7 Chi square failure for 130.0 Kev in Segment 8	
SECTION 7 - FGE MASS FGE Mass is greater than upper limit.	
SECTION 9 - IDC COUNT TYPE IDC is not available.	

Technical Reviewer:_____ Date:_____

****
***** M G A R E P O R T *****
****

Report generated on: 4-02-08 8:31:07 AM

MGA version: MGA V9.5 CI

Spectrum ID: 11202652.CNF Sens : 30.0% LT: 46.7 Mins DT: 16.61
Measurement date: 4-02-08 Declared date: 4-02-08

Sample ID: S100-2652 Detector: Total counts: 1.302E+07

Pu g/cm2 = 0.7657 Cd g/cm2 = 1.7913 FWHM at 122 keV = 610 eV
QFIT = 1.43 FWHM at 208 keV = 777 eV
NQFIT = 1.02

Isotope	Relative to Pu-239	%* Err	% Err	Relative to Pu-241	%* Err	Isotope analysis at Meas. date % weight	%Err	Decl. date % weight	%Err
Pu-238	0.000089	6.8	6.8	0.0471	6.8	0.00842	6.83	0.00842	6.83
Pu-239	1.000000	0.0	0.4	526.5118	0.7	94.11988	0.05	94.11988	0.05
Pu-240	0.060155	0.9	0.8	31.6723	1.0	5.66178	0.82	5.66178	0.82
Pu-241	0.001899	0.7	0.6	1.0000	0.0	0.17876	0.66	0.17876	0.66
Pu-242	(New alg.)			0.1743	(10)	0.03115	(10)	0.03115	(10)
Am-241	0.005301	0.5	0.3	2.7909	0.7	0.49891	0.46	0.49891	0.46

Pu-240 effective (meas. date) = 5.735 +/- 0.90%
Am-241 separated about 27.583 +/- 0.152 years ago
Am/Pu-241 weight ratio = 2.79095 +/- 0.68%

Messages :

Lead x-rays detected.
17 MGA parameter(s) defaulted, starting from parameter 8.

Notes : * = Error in ratio
1.000 sigma errors
Report for: S100-2652 4-02-08 8:31:21 AM Page 1

Gamma Waste Assay

Sample Information

File Name: C:\WAS\DATA\2700\11102652.S11
Sample ID: S100-2652 Count Sequence Number: 2652
Assay Start: 4-02-08 7:34:28 AM
Description 1:
Description 2:
Location:
Comment:
Waste Type:
Weight: Gross: 54000.0 g Net: 22200.0 g
Density: 0.107 g /ml

Container Type: 55 Gal Galv
Container: Volume: 208000. ml Full: 100.0 %

System Configuration

Counter ID Number:	SGS		
Arrangement Description:	SGS		
Segments:	Number: 16	Offset:	0
Scanning Platform:	Start: 934 mm	Delta:	-51 mm
Count Type:	Daily 100g Drum Check		
Collimator/Geometry Setting:	0		
Transmission Mode:	Two pass		
Transmission Source:	0		

Errors quoted at 1.000 sigma
Reference Source Date: Reference Source Rate: 1.00E+02 cps
Geometric Correction Factor(SWCONTGCF): 0.760
Date of efficiency calibration approval: 8-27-2003 2:05:34 PM
Mu Factors response file: Lucite
Transmission Calib. Time: 12-11-2007 9:07:38 AM 22209

Reviewed by: _____ Date: _____

Segment Results

Segment: 1 Detector: DET01 (# 1) Position: 1

Elapsed Live Time: 113.24 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.338 +/- 0.0132
SE-75	264.65	0.000 +/- 0.0000	0.461 +/- 0.0083
SE-75	279.53	0.000 +/- 0.0000	0.455 +/- 0.0095
SE-75	400.65	0.000 +/- 0.0000	0.516 +/- 0.0125

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.34	1.26E+00 +/- 2.38E-01	2.00E+00	5.68E-10 +/- 3.97E-09
2	48.99	3.67E+00 +/- 5.26E-01	1.69E+00	6.46E-07 +/- 1.97E-06
3	60.05	7.29E+00 +/- 5.76E-01	1.61E+00	6.22E-06 +/- 1.15E-05
4	148.57	9.86E-01 +/- 5.64E-01	1.45E+00	3.59E-04 +/- 4.14E-05
5	208.13	1.01E+00 +/- 3.04E-01	1.38E+00	3.80E-04 +/- 4.56E-05
6	662.42	3.93E-02 +/- 2.81E-02	1.21E+00	1.27E-04 +/- 8.85E-06
7	1112.12	2.89E-02 +/- 2.22E-02	1.15E+00	8.48E-05 +/- 4.39E-06
8	2236.00	1.00E+02 +/- 1.50E+00	1.11E+00	3.40E-05 +/- 2.15E-05

Segment: 2 Detector: DET01 (# 1) Position: 2

Elapsed Live Time: 112.79 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.419 +/- 0.0155
SE-75	264.65	0.000 +/- 0.0000	0.536 +/- 0.0095
SE-75	279.53	0.000 +/- 0.0000	0.541 +/- 0.0110
SE-75	400.65	0.000 +/- 0.0000	0.583 +/- 0.0137

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.95	1.18E+00 +/- 2.01E-01	1.78E+00	1.86E-05 +/- 1.16E-04
2	49.02	2.86E+00 +/- 6.01E-01	1.54E+00	7.89E-05 +/- 2.11E-04
3	60.06	1.58E+01 +/- 7.06E-01	1.48E+00	1.32E-04 +/- 2.14E-04
4	99.11	2.46E+00 +/- 7.78E-01	1.40E+00	3.08E-04 +/- 7.60E-05
5	403.14	2.46E-01 +/- 9.88E-02	1.22E+00	2.96E-04 +/- 1.83E-05
6	511.70	1.14E-01 +/- 7.46E-02	1.19E+00	2.38E-04 +/- 1.72E-05
7	778.90	5.26E-02 +/- 2.15E-02	1.15E+00	1.59E-04 +/- 8.28E-06
8	1408.01	8.77E-03 +/- 8.77E-03	1.11E+00	1.02E-04 +/- 6.88E-06
9	2236.00	1.00E+02 +/- 1.51E+00	1.09E+00	9.73E-05 +/- 5.41E-05

Segment: 3 Detector: DET01 (# 1) Position: 3

Elapsed Live Time: 109.98 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.342 +/- 0.0160
SE-75	264.65	0.000 +/- 0.0000	0.466 +/- 0.0085
SE-75	279.53	0.000 +/- 0.0000	0.481 +/- 0.0102
SE-75	400.65	0.000 +/- 0.0000	0.527 +/- 0.0132

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.12	2.90E+00 +/- 3.28E-01	2.00E+00	3.50E-06 +/- 3.34E-06
	2	60.16	7.74E+01 +/- 1.52E+00	1.61E+00	8.07E-05 +/- 2.79E-05
	3	99.37	3.04E+01 +/- 1.48E+00	1.50E+00	2.97E-04 +/- 3.03E-05
	4	111.72	8.25E+00 +/- 1.09E+00	1.49E+00	3.55E-04 +/- 2.60E-05
M	5	125.98	4.18E+00 +/- 4.04E-01	1.47E+00	4.08E-04 +/- 2.26E-05
m	6	129.98	2.77E+01 +/- 1.01E+00	1.47E+00	4.20E-04 +/- 2.22E-05
	7	148.57	2.98E+00 +/- 7.97E-01	1.44E+00	4.63E-04 +/- 2.25E-05
	8	196.48	1.13E+00 +/- 5.89E-01	1.38E+00	4.95E-04 +/- 2.60E-05
	9	208.69	1.66E+01 +/- 8.50E-01	1.37E+00	4.92E-04 +/- 2.59E-05
	10	244.70	1.01E+00 +/- 5.15E-01	1.34E+00	4.68E-04 +/- 2.38E-05
	11	256.23	1.13E+00 +/- 5.42E-01	1.33E+00	4.58E-04 +/- 2.28E-05
M	12	333.45	7.65E+00 +/- 4.84E-01	1.28E+00	3.84E-04 +/- 1.63E-05

m	13	336.28	2.97E+00	+/- 2.68E-01	1.28E+00	3.81E-04	+/-	1.61E-05
	14	345.71	5.54E+00	+/- 3.44E-01	1.28E+00	3.72E-04	+/-	1.56E-05
	15	368.79	3.18E+00	+/- 3.58E-01	1.27E+00	3.52E-04	+/-	1.44E-05
	16	375.80	1.30E+01	+/- 6.34E-01	1.27E+00	3.46E-04	+/-	1.41E-05
M	17	380.89	2.63E+00	+/- 2.69E-01	1.27E+00	3.42E-04	+/-	1.38E-05
m	18	383.55	2.69E+00	+/- 2.59E-01	1.27E+00	3.40E-04	+/-	1.37E-05
	19	393.57	6.03E+00	+/- 3.49E-01	1.27E+00	3.31E-04	+/-	1.34E-05
	20	413.70	1.63E+01	+/- 4.68E-01	1.26E+00	3.16E-04	+/-	1.28E-05
	21	423.25	9.03E-01	+/- 1.44E-01	1.26E+00	3.09E-04	+/-	1.26E-05
	22	452.20	1.86E+00	+/- 1.88E-01	1.25E+00	2.89E-04	+/-	1.20E-05
	23	646.76	1.02E-01	+/- 6.11E-02	1.21E+00	2.00E-04	+/-	9.81E-06
	24	662.42	8.24E-01	+/- 1.10E-01	1.20E+00	1.95E-04	+/-	9.62E-06
	25	722.01	2.90E-01	+/- 7.27E-02	1.19E+00	1.79E-04	+/-	8.87E-06
	26	1085.91	4.28E-02	+/- 2.54E-02	1.15E+00	1.28E-04	+/-	4.75E-06
	27	1174.04	7.84E-02	+/- 3.11E-02	1.14E+00	1.23E-04	+/-	4.63E-06
	28	2236.00	1.00E+02	+/- 1.52E+00	1.11E+00	1.32E-04	+/-	3.24E-05

Segment: 4 Detector: DET01 (# 1) Position: 4

Elapsed Live Time: 97.95 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.305 +/- 0.0202
SE-75	264.65	0.000 +/- 0.0000	0.500 +/- 0.0097
SE-75	279.53	0.000 +/- 0.0000	0.482 +/- 0.0112
SE-75	400.65	0.000 +/- 0.0000	0.536 +/- 0.0149

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.02	1.78E+01 +/- 8.65E-01	2.13E+00	1.17E-07 +/- 7.15E-07
2	50.30	7.64E+00 +/- 1.48E+00	1.75E+00	1.10E-05 +/- 2.72E-05
3	60.16	4.54E+02 +/- 6.24E+00	1.68E+00	3.62E-05 +/- 5.76E-05
4	75.15	3.53E+00 +/- 1.57E+00	1.62E+00	1.09E-04 +/- 8.85E-05
5	99.37	1.82E+02 +/- 3.80E+00	1.56E+00	2.64E-04 +/- 6.34E-05
6	111.69	3.87E+01 +/- 2.15E+00	1.55E+00	3.35E-04 +/- 3.62E-05
7	116.29	1.73E+01 +/- 2.88E+00	1.54E+00	3.58E-04 +/- 2.83E-05
M 8	125.98	2.40E+01 +/- 8.60E-01	1.53E+00	4.00E-04 +/- 2.37E-05
m 9	129.99	1.64E+02 +/- 2.97E+00	1.52E+00	4.14E-04 +/- 2.68E-05
10	148.57	2.11E+01 +/- 1.27E+00	1.49E+00	4.63E-04 +/- 4.66E-05
11	172.16	9.29E+00 +/- 1.17E+00	1.43E+00	4.88E-04 +/- 5.77E-05
12	179.96	4.53E+00 +/- 1.13E+00	1.42E+00	4.90E-04 +/- 5.79E-05
13	190.11	3.90E+00 +/- 9.66E-01	1.40E+00	4.89E-04 +/- 5.64E-05
14	196.36	5.44E+00 +/- 1.11E+00	1.39E+00	4.87E-04 +/- 5.48E-05

	15	208.67	1.02E+02	+/- 2.22E+00	1.37E+00	4.80E-04	+/-	5.05E-05
	16	222.26	2.45E+00	+/- 9.53E-01	1.35E+00	4.69E-04	+/-	4.47E-05
	17	244.70	2.25E+00	+/- 9.82E-01	1.31E+00	4.48E-04	+/-	3.50E-05
	18	255.97	6.72E+00	+/- 8.53E-01	1.30E+00	4.36E-04	+/-	3.06E-05
M	19	264.46	2.14E+00	+/- 3.98E-01	1.29E+00	4.27E-04	+/-	2.76E-05
m	20	268.24	4.81E+00	+/- 6.21E-01	1.29E+00	4.23E-04	+/-	2.63E-05
M	21	298.14	3.88E+00	+/- 5.63E-01	1.29E+00	3.91E-04	+/-	1.92E-05
m	22	300.94	1.32E+00	+/- 3.26E-01	1.29E+00	3.89E-04	+/-	1.88E-05
	23	311.90	5.26E+00	+/- 6.79E-01	1.29E+00	3.77E-04	+/-	1.75E-05
M	24	321.68	4.64E+00	+/- 5.52E-01	1.29E+00	3.68E-04	+/-	1.69E-05
m	25	324.08	5.83E+00	+/- 5.90E-01	1.28E+00	3.66E-04	+/-	1.68E-05
M	26	333.41	4.70E+01	+/- 1.23E+00	1.28E+00	3.57E-04	+/-	1.65E-05
m	27	336.38	1.85E+01	+/- 6.37E-01	1.28E+00	3.54E-04	+/-	1.65E-05
M	28	342.11	1.92E+00	+/- 2.77E-01	1.28E+00	3.49E-04	+/-	1.65E-05
m	29	345.72	3.75E+01	+/- 8.87E-01	1.28E+00	3.46E-04	+/-	1.65E-05
	30	368.92	3.14E+00	+/- 1.05E+00	1.27E+00	3.26E-04	+/-	1.70E-05
	31	375.73	7.74E+01	+/- 1.77E+00	1.26E+00	3.21E-04	+/-	1.71E-05
M	32	380.90	1.64E+01	+/- 6.59E-01	1.26E+00	3.17E-04	+/-	1.72E-05
m	33	383.50	1.70E+01	+/- 6.51E-01	1.26E+00	3.15E-04	+/-	1.73E-05
	34	393.59	3.74E+01	+/- 9.07E-01	1.26E+00	3.08E-04	+/-	1.75E-05
	35	413.70	9.88E+01	+/- 1.63E+00	1.25E+00	2.94E-04	+/-	1.78E-05
	36	423.24	5.68E+00	+/- 3.81E-01	1.25E+00	2.87E-04	+/-	1.79E-05
	37	446.68	4.76E-01	+/- 2.50E-01	1.24E+00	2.73E-04	+/-	1.78E-05
	38	452.18	1.20E+01	+/- 4.66E-01	1.24E+00	2.70E-04	+/-	1.78E-05
	39	482.63	2.39E-01	+/- 1.28E-01	1.23E+00	2.54E-04	+/-	1.73E-05
	40	619.68	1.16E+00	+/- 1.65E-01	1.20E+00	2.02E-04	+/-	1.27E-05
	41	633.83	1.50E-01	+/- 9.38E-02	1.20E+00	1.98E-04	+/-	1.22E-05
	42	646.64	5.04E-01	+/- 1.16E-01	1.20E+00	1.94E-04	+/-	1.18E-05

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
M	43	659.61	4.22E-01 +/- 8.61E-02	1.20E+00	1.91E-04 +/- 1.14E-05
m	44	663.18	5.06E+00 +/- 3.69E-01	1.20E+00	1.90E-04 +/- 1.12E-05
	45	689.52	4.47E-01 +/- 9.00E-02	1.19E+00	1.84E-04 +/- 1.05E-05
	46	722.01	2.36E+00 +/- 1.83E-01	1.19E+00	1.77E-04 +/- 9.59E-06
	47	756.89	2.51E-01 +/- 7.91E-02	1.18E+00	1.70E-04 +/- 8.81E-06
	48	770.04	6.34E-01 +/- 1.15E-01	1.18E+00	1.68E-04 +/- 8.56E-06
	49	2236.00	1.00E+02 +/- 1.60E+00	1.10E+00	7.00E-05 +/- 3.84E-05

Segment: 5 Detector: DET01 (# 1) Position: 5

Elapsed Live Time: 84.07 sec Elapsed Real Time: 115.00 sec

Analysis Warnings:
Minimum transmission used.

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.005 +/- 0.0025
SE-75	264.65	0.000 +/- 0.0000	0.223 +/- 0.0062
SE-75	279.53	0.000 +/- 0.0000	0.240 +/- 0.0091
SE-75	400.65	0.000 +/- 0.0000	0.367 +/- 0.0136

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.08	3.11E+01 +/- 1.31E+00	4.10E+00	2.80E-07 +/- 1.84E-06
	2	50.10	1.43E+01 +/- 2.07E+00	4.10E+00	1.60E-05 +/- 4.34E-05
	3	60.13	1.08E+03 +/- 1.47E+01	4.10E+00	4.78E-05 +/- 8.22E-05
	4	99.33	3.83E+02 +/- 6.87E+00	4.10E+00	2.77E-04 +/- 7.11E-05
	5	111.67	7.63E+01 +/- 3.30E+00	4.10E+00	3.41E-04 +/- 3.83E-05
	6	116.27	4.04E+01 +/- 4.37E+00	4.10E+00	3.61E-04 +/- 2.89E-05
M	7	125.91	4.84E+01 +/- 1.35E+00	4.10E+00	3.97E-04 +/- 2.36E-05
m	8	129.94	3.36E+02 +/- 5.52E+00	4.10E+00	4.09E-04 +/- 2.72E-05
	9	144.74	5.48E+00 +/- 1.84E+00	3.26E+00	4.42E-04 +/- 4.47E-05
	10	148.57	3.94E+01 +/- 1.89E+00	3.07E+00	4.48E-04 +/- 4.84E-05
	11	161.51	6.76E+00 +/- 1.57E+00	2.67E+00	4.62E-04 +/- 5.67E-05
	12	172.03	1.67E+01 +/- 1.79E+00	2.46E+00	4.67E-04 +/- 5.93E-05
	13	179.84	8.00E+00 +/- 1.37E+00	2.34E+00	4.67E-04 +/- 5.93E-05
	14	190.00	7.82E+00 +/- 1.39E+00	2.21E+00	4.65E-04 +/- 5.76E-05
	15	196.32	1.55E+01 +/- 1.91E+00	2.15E+00	4.63E-04 +/- 5.58E-05

	16	208.65	1.97E+02	+/- 3.77E+00	2.03E+00	4.56E-04	+/-	5.12E-05
	17	225.87	2.91E+00	+/- 1.16E+00	1.90E+00	4.42E-04	+/-	4.36E-05
	18	244.70	3.53E+00	+/- 1.50E+00	1.78E+00	4.25E-04	+/-	3.51E-05
	19	256.04	1.21E+01	+/- 1.21E+00	1.72E+00	4.14E-04	+/-	3.05E-05
M	20	264.55	3.41E+00	+/- 5.12E-01	1.68E+00	4.06E-04	+/-	2.74E-05
m	21	268.10	8.82E+00	+/- 8.56E-01	1.67E+00	4.03E-04	+/-	2.62E-05
M	22	298.09	6.94E+00	+/- 7.90E-01	1.60E+00	3.74E-04	+/-	1.90E-05
m	23	300.74	1.49E+00	+/- 4.06E-01	1.59E+00	3.72E-04	+/-	1.86E-05
	24	311.90	1.14E+01	+/- 9.77E-01	1.57E+00	3.62E-04	+/-	1.74E-05
M	25	321.72	9.57E+00	+/- 8.08E-01	1.55E+00	3.53E-04	+/-	1.68E-05
m	26	324.15	1.31E+01	+/- 9.07E-01	1.55E+00	3.51E-04	+/-	1.68E-05
M	27	333.36	8.75E+01	+/- 2.00E+00	1.53E+00	3.43E-04	+/-	1.67E-05
m	28	336.32	2.93E+01	+/- 9.22E-01	1.53E+00	3.41E-04	+/-	1.67E-05
M	29	342.16	9.27E+00	+/- 5.12E-01	1.52E+00	3.36E-04	+/-	1.68E-05
m	30	345.65	7.94E+01	+/- 1.90E+00	1.51E+00	3.33E-04	+/-	1.69E-05
	31	375.69	1.49E+02	+/- 3.00E+00	1.46E+00	3.11E-04	+/-	1.79E-05
M	32	380.87	3.41E+01	+/- 1.08E+00	1.46E+00	3.07E-04	+/-	1.81E-05
m	33	383.45	3.23E+01	+/- 1.01E+00	1.45E+00	3.06E-04	+/-	1.82E-05
	34	393.54	7.31E+01	+/- 1.53E+00	1.44E+00	2.99E-04	+/-	1.85E-05
	35	413.70	1.94E+02	+/- 3.04E+00	1.42E+00	2.86E-04	+/-	1.90E-05
	36	446.70	7.05E-01	+/- 4.09E-01	1.41E+00	2.68E-04	+/-	1.91E-05
	37	452.12	2.26E+01	+/- 7.40E-01	1.40E+00	2.65E-04	+/-	1.91E-05
	38	473.40	3.84E-01	+/- 2.50E-01	1.39E+00	2.54E-04	+/-	1.88E-05
	39	482.30	5.22E-01	+/- 2.14E-01	1.39E+00	2.50E-04	+/-	1.87E-05
	40	598.68	4.23E-01	+/- 1.53E-01	1.35E+00	2.07E-04	+/-	1.46E-05
	41	619.60	2.11E+00	+/- 2.32E-01	1.34E+00	2.01E-04	+/-	1.37E-05
	42	633.59	2.54E-01	+/- 1.65E-01	1.34E+00	1.97E-04	+/-	1.32E-05

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
	43	646.41	3.18E-01 +/- 2.24E-01	1.33E+00	1.94E-04 +/- 1.27E-05
	44	653.32	1.06E+00 +/- 2.74E-01	1.33E+00	1.92E-04 +/- 1.24E-05
M	45	659.52	5.77E-01 +/- 1.21E-01	1.33E+00	1.91E-04 +/- 1.22E-05
m	46	663.10	9.71E+00 +/- 5.52E-01	1.33E+00	1.90E-04 +/- 1.20E-05
	47	689.35	1.09E+00 +/- 1.61E-01	1.32E+00	1.84E-04 +/- 1.11E-05
	48	704.80	2.25E-01 +/- 1.02E-01	1.32E+00	1.80E-04 +/- 1.06E-05
M	49	717.91	3.61E-01 +/- 7.71E-02	1.31E+00	1.77E-04 +/- 1.02E-05
m	50	722.66	5.02E+00 +/- 3.99E-01	1.31E+00	1.76E-04 +/- 1.01E-05
	51	756.63	5.56E-01 +/- 1.13E-01	1.30E+00	1.70E-04 +/- 9.13E-06
	52	769.95	1.24E+00 +/- 1.56E-01	1.30E+00	1.67E-04 +/- 8.82E-06
	53	1112.12	6.21E-02 +/- 3.88E-02	1.24E+00	1.23E-04 +/- 5.54E-06
	54	2236.00	1.00E+02 +/- 1.72E+00	1.17E+00	5.76E-05 +/- 3.29E-05

Segment: 6 Detector: DET01 (# 1) Position: 6

Elapsed Live Time: 84.11 sec Elapsed Real Time: 115.00 sec

Analysis Warnings:
Minimum transmission used.

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.005 +/- 0.0025
SE-75	264.65	0.000 +/- 0.0000	0.209 +/- 0.0059
SE-75	279.53	0.000 +/- 0.0000	0.240 +/- 0.0091
SE-75	400.65	0.000 +/- 0.0000	0.332 +/- 0.0134

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.05	3.07E+01 +/- 1.26E+00	4.10E+00	4.71E-07 +/- 2.96E-06
	2	50.02	1.14E+01 +/- 1.86E+00	4.10E+00	2.16E-05 +/- 5.59E-05
	3	60.14	1.01E+03 +/- 1.37E+01	4.10E+00	6.06E-05 +/- 9.93E-05
	4	99.32	3.61E+02 +/- 6.54E+00	4.10E+00	3.06E-04 +/- 7.51E-05
	5	111.66	7.20E+01 +/- 3.22E+00	4.10E+00	3.68E-04 +/- 4.00E-05
	6	116.28	4.95E+01 +/- 4.27E+00	4.10E+00	3.88E-04 +/- 3.03E-05
M	7	125.91	5.06E+01 +/- 1.37E+00	4.10E+00	4.21E-04 +/- 2.46E-05
m	8	129.94	3.31E+02 +/- 5.40E+00	4.10E+00	4.33E-04 +/- 2.80E-05
M	9	144.79	2.25E+01 +/- 9.92E-01	3.29E+00	4.64E-04 +/- 4.49E-05
m	10	146.93	2.09E+01 +/- 9.61E-01	3.18E+00	4.67E-04 +/- 4.70E-05

m	11	149.19	5.02E+01	+/- 1.61E+00	3.09E+00	4.70E-04	+/-	4.89E-05
	12	161.39	3.74E+00	+/- 1.70E+00	2.72E+00	4.81E-04	+/-	5.63E-05
	13	165.24	6.73E+00	+/- 1.27E+00	2.63E+00	4.83E-04	+/-	5.76E-05
	14	172.03	1.34E+01	+/- 2.10E+00	2.51E+00	4.85E-04	+/-	5.88E-05
	15	179.67	4.18E+00	+/- 1.69E+00	2.39E+00	4.85E-04	+/-	5.89E-05
	16	189.94	7.00E+00	+/- 1.57E+00	2.26E+00	4.82E-04	+/-	5.72E-05
	17	196.37	1.40E+01	+/- 1.99E+00	2.19E+00	4.80E-04	+/-	5.54E-05
	18	204.17	6.23E+01	+/- 1.77E+00	2.11E+00	4.75E-04	+/-	5.27E-05
	19	208.65	1.61E+02	+/- 3.63E+00	2.07E+00	4.72E-04	+/-	5.09E-05
	20	256.06	1.21E+01	+/- 1.47E+00	1.75E+00	4.33E-04	+/-	3.09E-05
M	21	264.58	4.49E+00	+/- 5.49E-01	1.71E+00	4.25E-04	+/-	2.79E-05
m	22	268.14	8.98E+00	+/- 8.23E-01	1.69E+00	4.22E-04	+/-	2.67E-05
	23	298.11	8.85E+00	+/- 1.21E+00	1.61E+00	3.94E-04	+/-	1.97E-05
	24	311.90	9.68E+00	+/- 1.02E+00	1.59E+00	3.82E-04	+/-	1.81E-05
M	25	321.66	8.05E+00	+/- 7.03E-01	1.58E+00	3.74E-04	+/-	1.75E-05
m	26	324.12	1.24E+01	+/- 8.51E-01	1.57E+00	3.72E-04	+/-	1.74E-05
M	27	333.37	8.85E+01	+/- 2.00E+00	1.56E+00	3.65E-04	+/-	1.73E-05
m	28	336.33	2.78E+01	+/- 8.92E-01	1.55E+00	3.62E-04	+/-	1.73E-05
M	29	342.10	9.33E+00	+/- 5.05E-01	1.55E+00	3.58E-04	+/-	1.74E-05
m	30	345.65	7.80E+01	+/- 1.86E+00	1.54E+00	3.55E-04	+/-	1.74E-05
	31	375.69	1.44E+02	+/- 2.93E+00	1.51E+00	3.34E-04	+/-	1.84E-05
M	32	380.84	3.40E+01	+/- 1.07E+00	1.50E+00	3.30E-04	+/-	1.86E-05
m	33	383.42	3.24E+01	+/- 1.00E+00	1.50E+00	3.28E-04	+/-	1.87E-05
	34	393.55	7.17E+01	+/- 1.49E+00	1.48E+00	3.22E-04	+/-	1.90E-05
	35	413.70	1.94E+02	+/- 3.00E+00	1.47E+00	3.09E-04	+/-	1.95E-05
	36	452.14	2.37E+01	+/- 7.21E-01	1.45E+00	2.88E-04	+/-	1.97E-05
	37	461.62	7.48E-01	+/- 3.27E-01	1.44E+00	2.83E-04	+/-	1.96E-05
	38	482.37	6.00E-01	+/- 2.70E-01	1.43E+00	2.73E-04	+/-	1.93E-05
	39	619.64	2.27E+00	+/- 2.29E-01	1.38E+00	2.22E-04	+/-	1.43E-05
	40	646.64	1.22E+00	+/- 1.78E-01	1.37E+00	2.15E-04	+/-	1.32E-05
M	41	659.46	8.00E-01	+/- 1.28E-01	1.36E+00	2.11E-04	+/-	1.27E-05
m	42	663.15	9.45E+00	+/- 5.34E-01	1.36E+00	2.10E-04	+/-	1.26E-05

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
	43	689.35	7.98E-01 +/- 1.66E-01	1.35E+00	2.03E-04 +/- 1.16E-05
	44	704.59	3.36E-01 +/- 1.09E-01	1.35E+00	2.00E-04 +/- 1.11E-05
	45	722.01	4.43E+00 +/- 2.68E-01	1.34E+00	1.95E-04 +/- 1.05E-05
	46	756.89	3.93E-01 +/- 1.04E-01	1.34E+00	1.88E-04 +/- 9.53E-06
	47	770.11	1.19E+00 +/- 1.49E-01	1.33E+00	1.85E-04 +/- 9.20E-06
	48	778.90	1.43E-01 +/- 4.85E-02	1.33E+00	1.83E-04 +/- 8.99E-06
	49	1112.12	3.50E-02 +/- 2.02E-02	1.27E+00	1.31E-04 +/- 5.52E-06
	50	1408.01	3.35E-02 +/- 2.72E-02	1.23E+00	9.88E-05 +/- 6.79E-06
	51	2236.00	1.00E+02 +/- 1.70E+00	1.19E+00	4.34E-05 +/- 2.42E-05
	52	2294.99	1.63E-01 +/- 7.11E-02	1.19E+00	4.08E-05 +/- 2.49E-05

Segment: 7 Detector: DET01 (# 1) Position: 7

Elapsed Live Time: 95.74 sec Elapsed Real Time: 115.00 sec

Analysis Warnings:
Some transmission peaks rejected.

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.000 +/- 0.0000
SE-75	264.65	0.000 +/- 0.0000	0.300 +/- 0.0065
SE-75	279.53	0.000 +/- 0.0000	0.305 +/- 0.0088
SE-75	400.65	0.000 +/- 0.0000	0.395 +/- 0.0125

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.03	8.85E+00 +/- 6.37E-01	2.43E+00	4.90E-09 +/- 2.81E-08
	2	50.24	1.06E+01 +/- 1.69E+00	1.94E+00	3.00E-06 +/- 6.99E-06
	3	60.15	6.67E+02 +/- 8.91E+00	1.85E+00	1.60E-05 +/- 2.38E-05
	4	75.51	4.12E+00 +/- 1.70E+00	1.77E+00	7.48E-05 +/- 5.62E-05
	5	99.35	2.12E+02 +/- 4.26E+00	1.70E+00	2.43E-04 +/- 5.52E-05
	6	111.68	4.68E+01 +/- 2.34E+00	1.68E+00	3.35E-04 +/- 3.49E-05
	7	116.25	1.55E+01 +/- 3.10E+00	1.67E+00	3.66E-04 +/- 2.83E-05
M	8	125.95	2.85E+01 +/- 9.39E-01	1.66E+00	4.24E-04 +/- 2.46E-05
m	9	129.98	1.96E+02 +/- 3.40E+00	1.65E+00	4.45E-04 +/- 2.77E-05
	10	148.57	2.21E+01 +/- 1.37E+00	1.63E+00	5.16E-04 +/- 4.85E-05
	11	161.50	3.92E+00 +/- 1.42E+00	1.62E+00	5.43E-04 +/- 5.77E-05
	12	171.84	9.28E+00 +/- 1.49E+00	1.60E+00	5.54E-04 +/- 6.09E-05

	13	179.80	4.72E+00	+/- 1.28E+00	1.60E+00	5.58E-04	+/-	6.12E-05
	14	189.96	4.89E+00	+/- 1.26E+00	1.59E+00	5.58E-04	+/-	5.97E-05
	15	196.35	9.21E+00	+/- 1.40E+00	1.58E+00	5.56E-04	+/-	5.79E-05
	16	208.66	1.08E+02	+/- 2.35E+00	1.57E+00	5.47E-04	+/-	5.32E-05
	17	225.98	1.37E+00	+/- 8.33E-01	1.56E+00	5.29E-04	+/-	4.52E-05
	18	244.70	2.12E+00	+/- 1.09E+00	1.54E+00	5.05E-04	+/-	3.65E-05
	19	256.00	8.63E+00	+/- 9.77E-01	1.53E+00	4.90E-04	+/-	3.18E-05
M	20	264.59	2.19E+00	+/- 3.88E-01	1.53E+00	4.78E-04	+/-	2.86E-05
m	21	268.16	5.43E+00	+/- 6.31E-01	1.52E+00	4.74E-04	+/-	2.74E-05
	22	298.11	3.19E+00	+/- 8.49E-01	1.50E+00	4.34E-04	+/-	2.02E-05
	23	311.90	5.72E+00	+/- 7.61E-01	1.48E+00	4.17E-04	+/-	1.86E-05
M	24	321.68	5.13E+00	+/- 5.55E-01	1.47E+00	4.05E-04	+/-	1.79E-05
m	25	324.19	6.88E+00	+/- 6.29E-01	1.47E+00	4.02E-04	+/-	1.78E-05
M	26	333.40	5.08E+01	+/- 1.30E+00	1.46E+00	3.91E-04	+/-	1.76E-05
m	27	336.40	2.03E+01	+/- 6.73E-01	1.45E+00	3.88E-04	+/-	1.76E-05
	28	345.68	2.59E+01	+/- 8.97E-01	1.45E+00	3.78E-04	+/-	1.76E-05
	29	368.92	2.30E+00	+/- 1.11E+00	1.42E+00	3.55E-04	+/-	1.81E-05
	30	375.72	8.33E+01	+/- 1.88E+00	1.42E+00	3.48E-04	+/-	1.82E-05
M	31	380.90	1.75E+01	+/- 6.97E-01	1.41E+00	3.44E-04	+/-	1.83E-05
m	32	383.47	1.89E+01	+/- 7.11E-01	1.41E+00	3.41E-04	+/-	1.84E-05
	33	393.58	3.95E+01	+/- 9.66E-01	1.40E+00	3.33E-04	+/-	1.86E-05
	34	413.70	1.07E+02	+/- 1.75E+00	1.39E+00	3.17E-04	+/-	1.88E-05
	35	452.19	1.19E+01	+/- 4.62E-01	1.37E+00	2.90E-04	+/-	1.86E-05
	36	598.77	2.31E-01	+/- 1.02E-01	1.32E+00	2.22E-04	+/-	1.40E-05
	37	619.41	9.04E-01	+/- 1.76E-01	1.31E+00	2.15E-04	+/-	1.32E-05
	38	653.53	6.16E-01	+/- 1.85E-01	1.30E+00	2.06E-04	+/-	1.20E-05
M	39	659.47	2.94E-01	+/- 7.90E-02	1.30E+00	2.04E-04	+/-	1.18E-05
m	40	663.08	4.95E+00	+/- 3.81E-01	1.30E+00	2.03E-04	+/-	1.17E-05
	41	689.71	4.59E-01	+/- 1.20E-01	1.29E+00	1.96E-04	+/-	1.09E-05
	42	722.01	2.44E+00	+/- 1.87E-01	1.29E+00	1.89E-04	+/-	9.99E-06

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	756.97	1.83E-01 +/- 8.00E-02	1.28E+00	1.81E-04 +/- 9.17E-06
44	770.07	7.82E-01 +/- 1.24E-01	1.28E+00	1.79E-04 +/- 8.90E-06
45	2236.00	1.00E+02 +/- 1.62E+00	1.16E+00	5.07E-05 +/- 2.69E-05

Segment: 8 Detector: DET01 (# 1) Position: 8

Elapsed Live Time: 108.08 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.336 +/- 0.0152
SE-75	264.65	0.000 +/- 0.0000	0.506 +/- 0.0092
SE-75	279.53	0.000 +/- 0.0000	0.520 +/- 0.0111
SE-75	400.65	0.000 +/- 0.0000	0.580 +/- 0.0143

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.10	4.55E+00 +/- 4.45E-01	2.02E+00	7.72E-06 +/- 7.49E-06
	2	49.97	3.91E+00 +/- 9.28E-01	1.69E+00	5.91E-05 +/- 2.92E-05
	3	60.17	1.96E+02 +/- 2.92E+00	1.62E+00	1.10E-04 +/- 3.84E-05
	4	99.38	5.88E+01 +/- 1.94E+00	1.51E+00	3.25E-04 +/- 3.31E-05
	5	111.69	4.33E+00 +/- 1.43E+00	1.50E+00	3.75E-04 +/- 2.72E-05
	6	116.04	1.84E+01 +/- 1.47E+00	1.49E+00	3.90E-04 +/- 2.56E-05
M	7	125.97	9.37E+00 +/- 5.14E-01	1.48E+00	4.19E-04 +/- 2.31E-05
m	8	129.99	5.63E+01 +/- 1.42E+00	1.48E+00	4.29E-04 +/- 2.26E-05
	9	144.83	1.08E+00 +/- 5.91E-01	1.45E+00	4.57E-04 +/- 2.25E-05
	10	148.57	6.52E+00 +/- 7.89E-01	1.45E+00	4.62E-04 +/- 2.28E-05
	11	172.01	2.01E+00 +/- 8.27E-01	1.40E+00	4.80E-04 +/- 2.51E-05
	12	196.53	3.30E+00 +/- 7.04E-01	1.37E+00	4.79E-04 +/- 2.62E-05
	13	208.68	2.76E+01 +/- 1.08E+00	1.35E+00	4.74E-04 +/- 2.60E-05
	14	256.17	1.38E+00 +/- 3.89E-01	1.29E+00	4.39E-04 +/- 2.28E-05
	15	268.48	1.31E+00 +/- 5.62E-01	1.28E+00	4.28E-04 +/- 2.17E-05
	16	298.29	1.23E+00 +/- 3.86E-01	1.26E+00	4.01E-04 +/- 1.90E-05
	17	311.90	1.05E+00 +/- 4.42E-01	1.26E+00	3.88E-04 +/- 1.78E-05
	18	323.00	2.97E+00 +/- 5.67E-01	1.25E+00	3.78E-04 +/- 1.70E-05
M	19	333.46	1.31E+01 +/- 6.14E-01	1.25E+00	3.69E-04 +/- 1.62E-05
m	20	336.45	4.73E+00 +/- 3.20E-01	1.24E+00	3.66E-04 +/- 1.60E-05
M	21	342.23	6.20E-01 +/- 1.95E-01	1.24E+00	3.62E-04 +/- 1.56E-05
m	22	345.75	1.17E+01 +/- 6.14E-01	1.24E+00	3.59E-04 +/- 1.54E-05

	23	368.97	2.15E+00	+/- 5.60E-01	1.23E+00	3.39E-04	+/-	1.41E-05
	24	375.78	2.06E+01	+/- 8.15E-01	1.23E+00	3.34E-04	+/-	1.38E-05
M	25	380.95	5.02E+00	+/- 3.56E-01	1.23E+00	3.30E-04	+/-	1.36E-05
m	26	383.44	4.56E+00	+/- 3.21E-01	1.23E+00	3.28E-04	+/-	1.35E-05
	27	393.60	1.06E+01	+/- 4.33E-01	1.22E+00	3.21E-04	+/-	1.31E-05
	28	413.70	2.70E+01	+/- 6.35E-01	1.22E+00	3.06E-04	+/-	1.25E-05
M	29	423.35	2.20E+00	+/- 2.33E-01	1.22E+00	3.00E-04	+/-	1.22E-05
m	30	427.20	5.16E-01	+/- 9.45E-02	1.21E+00	2.97E-04	+/-	1.21E-05
	31	446.72	2.28E-01	+/- 1.51E-01	1.21E+00	2.85E-04	+/-	1.17E-05
	32	452.23	3.08E+00	+/- 2.35E-01	1.21E+00	2.82E-04	+/-	1.16E-05
	33	619.63	3.36E-01	+/- 8.52E-02	1.18E+00	2.06E-04	+/-	9.86E-06
	34	646.81	1.68E-01	+/- 6.63E-02	1.17E+00	1.98E-04	+/-	9.58E-06
	35	662.42	1.47E+00	+/- 1.38E-01	1.17E+00	1.93E-04	+/-	9.41E-06
	36	722.01	7.35E-01	+/- 1.01E-01	1.16E+00	1.78E-04	+/-	8.71E-06
	37	1112.12	3.76E-02	+/- 3.06E-02	1.13E+00	1.26E-04	+/-	4.65E-06
	38	2236.00	1.00E+02	+/- 1.54E+00	1.09E+00	1.19E-04	+/-	2.92E-05

Segment: 9 Detector: DET01 (# 1) Position: 9

Elapsed Live Time: 112.67 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.381 +/- 0.0152
SE-75	264.65	0.000 +/- 0.0000	0.521 +/- 0.0093
SE-75	279.53	0.000 +/- 0.0000	0.521 +/- 0.0107
SE-75	400.65	0.000 +/- 0.0000	0.584 +/- 0.0138

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.96	2.11E+00 +/- 2.72E-01	1.88E+00	5.93E-09 +/- 3.58E-08
2	60.13	3.01E+01 +/- 8.60E-01	1.54E+00	1.64E-05 +/- 2.57E-05
3	67.92	8.42E-01 +/- 5.61E-01	1.51E+00	3.96E-05 +/- 4.38E-05
4	99.48	2.75E+00 +/- 9.09E-01	1.45E+00	2.36E-04 +/- 5.56E-05
5	104.09	1.29E+00 +/- 7.19E-01	1.44E+00	2.70E-04 +/- 4.80E-05
6	208.67	1.43E+00 +/- 4.06E-01	1.32E+00	5.11E-04 +/- 5.15E-05
7	300.10	4.56E-01 +/- 2.83E-01	1.26E+00	3.97E-04 +/- 1.90E-05
8	375.90	5.44E-01 +/- 2.31E-01	1.23E+00	3.18E-04 +/- 1.78E-05
9	413.70	6.41E-01 +/- 9.95E-02	1.22E+00	2.88E-04 +/- 1.83E-05
10	2236.00	1.00E+02 +/- 1.50E+00	1.09E+00	6.12E-05 +/- 3.31E-05

Segment: 10 Detector: DET01 (# 1) Position: 10

Elapsed Live Time: 113.25 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.306 +/- 0.0130
SE-75	264.65	0.000 +/- 0.0000	0.452 +/- 0.0081
SE-75	279.53	0.000 +/- 0.0000	0.479 +/- 0.0099
SE-75	400.65	0.000 +/- 0.0000	0.521 +/- 0.0126

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.80	1.36E+00 +/- 2.38E-01	2.14E+00	1.61E-05 +/- 1.61E-05
2	60.06	1.32E+01 +/- 6.18E-01	1.68E+00	1.37E-04 +/- 4.88E-05
3	413.70	1.98E-01 +/- 6.84E-02	1.26E+00	3.15E-04 +/- 1.29E-05
4	1001.03	3.62E-02 +/- 2.16E-02	1.16E+00	1.41E-04 +/- 5.67E-06
5	1085.91	3.53E-02 +/- 1.77E-02	1.15E+00	1.31E-04 +/- 4.92E-06
6	1408.01	2.65E-02 +/- 1.53E-02	1.13E+00	1.09E-04 +/- 6.83E-06
7	2236.00	1.00E+02 +/- 1.51E+00	1.11E+00	9.04E-05 +/- 2.29E-05

Segment: 11 Detector: DET01 (# 1) Position: 11

Elapsed Live Time: 113.53 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.201 +/- 0.0101
SE-75	264.65	0.000 +/- 0.0000	0.314 +/- 0.0059
SE-75	279.53	0.000 +/- 0.0000	0.322 +/- 0.0073
SE-75	400.65	0.000 +/- 0.0000	0.365 +/- 0.0096

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.08	1.21E+00 +/- 2.10E-01	2.62E+00	1.33E-03 +/- 8.56E-03
2	59.90	5.90E+00 +/- 5.01E-01	1.97E+00	5.05E-04 +/- 8.60E-04
3	67.58	1.07E+00 +/- 3.94E-01	1.91E+00	4.66E-04 +/- 5.63E-04
4	662.42	4.13E-02 +/- 3.18E-02	1.33E+00	2.15E-04 +/- 1.30E-05
5	1001.03	1.74E-02 +/- 1.23E-02	1.26E+00	1.39E-04 +/- 6.19E-06
6	2236.00	1.00E+02 +/- 1.50E+00	1.17E+00	5.79E-05 +/- 3.30E-05

Segment: 12 Detector: DET01 (# 1) Position: 12

Elapsed Live Time: 113.81 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.082 +/- 0.0078
SE-75	264.65	0.000 +/- 0.0000	0.144 +/- 0.0031
SE-75	279.53	0.000 +/- 0.0000	0.148 +/- 0.0042
SE-75	400.65	0.000 +/- 0.0000	0.182 +/- 0.0060

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.78	1.12E+00 +/- 1.90E-01	3.73E+00	3.69E-09 +/- 2.18E-08
	2	49.13	2.69E+00 +/- 3.61E-01	2.87E+00	1.69E-06 +/- 4.46E-06
M	3	57.91	1.53E+00 +/- 2.29E-01	2.68E+00	9.26E-06 +/- 1.64E-05
m	4	60.05	1.83E+00 +/- 2.53E-01	2.65E+00	1.28E-05 +/- 2.06E-05
	5	413.70	1.08E-01 +/- 4.43E-02	1.77E+00	2.87E-04 +/- 1.84E-05
	6	1408.01	2.60E-02 +/- 1.50E-02	1.37E+00	1.08E-04 +/- 7.12E-06
	7	2236.00	1.00E+02 +/- 1.50E+00	1.30E+00	6.48E-05 +/- 3.54E-05

Segment: 13 Detector: DET01 (# 1) Position: 13

Elapsed Live Time: 113.98 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.311 +/- 0.0114
SE-75	264.65	0.000 +/- 0.0000	0.408 +/- 0.0073
SE-75	279.53	0.000 +/- 0.0000	0.422 +/- 0.0087
SE-75	400.65	0.000 +/- 0.0000	0.457 +/- 0.0113

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.14	2.77E-01 +/- 1.02E-01	2.11E+00	1.82E-08 +/- 1.18E-07
2	50.32	2.02E+00 +/- 3.35E-01	1.74E+00	5.27E-06 +/- 1.39E-05
3	60.15	9.11E-01 +/- 2.50E-01	1.67E+00	2.29E-05 +/- 3.87E-05
4	264.66	4.06E-01 +/- 2.23E-01	1.38E+00	4.27E-04 +/- 2.80E-05
5	512.01	1.78E-01 +/- 6.38E-02	1.29E+00	2.39E-04 +/- 1.80E-05
6	1112.12	8.65E-03 +/- 8.65E-03	1.18E+00	1.30E-04 +/- 5.64E-06
7	2236.00	1.00E+02 +/- 1.50E+00	1.13E+00	5.36E-05 +/- 3.03E-05

Segment: 14 Detector: DET01 (# 1) Position: 14

Elapsed Live Time: 114.13 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.803 +/- 0.0208
SE-75	264.65	0.000 +/- 0.0000	0.871 +/- 0.0149
SE-75	279.53	0.000 +/- 0.0000	0.879 +/- 0.0165
SE-75	400.65	0.000 +/- 0.0000	0.882 +/- 0.0191

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.76	4.42E-01 +/- 1.25E-01	1.17E+00	3.27E-06 +/- 2.00E-05
2	59.94	7.71E-01 +/- 2.18E-01	1.11E+00	9.46E-05 +/- 1.50E-04
3	148.57	4.71E-01 +/- 3.14E-01	1.08E+00	4.51E-04 +/- 4.47E-05
4	300.10	1.39E-01 +/- 9.93E-02	1.05E+00	3.81E-04 +/- 1.84E-05

5	662.42	4.10E-02 +/-	2.48E-02	1.04E+00	1.96E-04 +/-	1.14E-05
6	722.01	3.24E-02 +/-	2.52E-02	1.04E+00	1.81E-04 +/-	9.66E-06
7	867.39	8.63E-03 +/-	8.63E-03	1.03E+00	1.55E-04 +/-	7.11E-06
8	1001.03	3.45E-02 +/-	1.73E-02	1.03E+00	1.37E-04 +/-	6.10E-06
9	2236.00	1.00E+02 +/-	1.49E+00	1.02E+00	7.64E-05 +/-	4.15E-05

Segment: 15 Detector: DET01 (# 1) Position: 15

Elapsed Live Time: 114.21 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.829 +/- 0.0227
SE-75	264.65	0.000 +/- 0.0000	0.893 +/- 0.0152
SE-75	279.53	0.000 +/- 0.0000	0.894 +/- 0.0167
SE-75	400.65	0.000 +/- 0.0000	0.897 +/- 0.0193

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.83	1.26E-01 +/- 7.80E-02	1.15E+00	1.03E-09 +/- 6.56E-09
2	50.34	2.20E+00 +/- 2.71E-01	1.10E+00	1.92E-06 +/- 4.93E-06
3	75.66	7.55E-01 +/- 2.69E-01	1.09E+00	6.77E-05 +/- 5.56E-05
4	867.39	2.24E-02 +/- 1.74E-02	1.03E+00	1.44E-04 +/- 6.82E-06
5	964.13	3.48E-02 +/- 1.74E-02	1.03E+00	1.33E-04 +/- 6.09E-06
6	1001.03	3.48E-02 +/- 2.16E-02	1.03E+00	1.29E-04 +/- 5.86E-06
7	1085.91	2.61E-02 +/- 1.51E-02	1.02E+00	1.21E-04 +/- 5.37E-06
8	2236.00	1.00E+02 +/- 1.50E+00	1.02E+00	3.18E-05 +/- 1.80E-05

Segment: 16 Detector: DET01 (# 1) Position: 16

Elapsed Live Time: 114.22 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.748 +/- 0.0209
SE-75	264.65	0.000 +/- 0.0000	0.837 +/- 0.0143
SE-75	279.53	0.000 +/- 0.0000	0.854 +/- 0.0160
SE-75	400.65	0.000 +/- 0.0000	0.880 +/- 0.0190

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.76	2.26E-01 +/- 7.84E-02	1.23E+00	3.84E-06 +/- 4.66E-06
2	60.25	2.79E-01 +/- 1.55E-01	1.15E+00	5.64E-05 +/- 2.42E-05
3	185.71	3.33E-01 +/- 1.87E-01	1.09E+00	2.63E-04 +/- 1.76E-05
4	413.70	1.12E-01 +/- 4.72E-02	1.05E+00	1.79E-04 +/- 8.85E-06
5	443.98	5.06E-02 +/- 3.59E-02	1.05E+00	1.68E-04 +/- 8.43E-06
6	722.01	2.58E-02 +/- 1.49E-02	1.04E+00	1.06E-04 +/- 6.56E-06
7	778.90	3.84E-02 +/- 2.55E-02	1.03E+00	9.86E-05 +/- 6.05E-06
8	964.13	3.98E-02 +/- 2.47E-02	1.03E+00	8.21E-05 +/- 4.35E-06
9	1333.83	7.06E-02 +/- 2.70E-02	1.03E+00	6.64E-05 +/- 4.06E-06
10	2236.00	1.00E+02 +/- 1.49E+00	1.02E+00	6.28E-05 +/- 1.87E-05

Summed Spectrum

Peak Locate Report

Sample ID: S100-2652
Peak Locate Performed on: 4-02-08 8:31:08 AM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192
Peak Search Sensitivity: 5.00

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
1	64.72	0.1094	32.03	36.72
2	100.76	0.1539	50.04	15.18
3	120.96	0.0320	60.14	425.74
4	151.97	0.2678	75.65	7.27
5	199.35	0.0419	99.34	231.06
6	224.02	0.0610	111.67	114.92
7	233.18	0.0691	116.26	48.19
8	260.58	0.0422	129.96	228.27
9	299.16	0.0878	149.25	60.80
10	344.76	0.1555	172.05	18.71
11	360.33	0.1722	179.83	14.01
12	380.62	0.1457	189.97	20.03
13	393.40	0.1239	196.37	26.28
14	417.99	0.0436	208.66	220.22
15	452.79	0.2726	226.06	6.14
16	488.37	0.2066	243.85	9.08
17	512.75	0.1214	256.04	27.75
18	529.69	0.1954	264.52	11.18
19	537.03	0.1350	268.17	24.18
20	596.93	0.1483	298.13	20.11
21	625.68	0.1093	312.51	33.09
22	643.50	0.1936	321.72	11.95
23	649.14	0.1548	324.13	17.20
24	667.34	0.0592	333.38	111.07
25	673.85	0.0961	336.34	50.80
26	684.52	0.1426	342.12	25.43
27	692.00	0.0596	345.67	115.49
28	725.61	0.2404	362.47	7.03
29	738.47	0.0921	368.90	37.75
30	752.09	0.0450	375.71	193.65
31	762.06	0.0814	380.88	67.77
32	767.88	0.0878	383.46	59.31
33	787.80	0.0602	393.56	102.93
34	829.42	0.0444	414.38	177.62
35	847.16	0.0883	423.24	49.80
36	904.99	0.0782	452.16	64.20

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
37	965.43	0.2412	482.38	6.03
38	1024.83	0.2229	512.08	6.07
39	1239.85	0.1552	619.59	14.46
40	1268.24	0.2748	633.79	5.05
41	1293.92	0.1697	646.62	13.14
42	1307.06	0.1711	653.20	10.61
43	1319.02	0.2508	659.49	8.24
44	1326.90	0.0942	663.14	40.47
45	1379.56	0.1884	689.44	9.30
46	1409.61	0.2359	704.47	6.48
47	1446.08	0.1115	722.70	28.15
48	1514.32	0.2101	756.82	7.99
49	1540.65	0.1801	769.99	10.61
50	4472.99	0.0267	2236.16	399.92

Errors quoted at 1.000 sigma

Summed Spectrum

Peak Analysis Report

Sample ID: S100-2652
Peak Analysis Performed on: 4-02-08 8:31:08 AM
Peak Analysis From Channel: 40
Peak Analysis To Channel: 8192

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	1	60-	71	64.72	32.03	1.14E+04	216.86	1.31E+04
	2	94-	105	100.76	50.04	7.73E+03	395.92	5.77E+04
	3	114-	127	120.96	60.14	3.25E+05	717.40	6.90E+04
	4	145-	158	151.97	75.65	2.41E+03	420.58	6.25E+04
	5	194-	203	199.35	99.34	1.12E+05	777.34	2.19E+05
	6	217-	227	224.02	111.67	2.29E+04	544.47	1.12E+05
	7	227-	240	233.18	116.26	1.10E+04	727.56	1.76E+05
	8	256-	267	260.58	129.96	8.38E+04	505.14	6.66E+04
	9	297-	306	299.16	149.25	8.12E+03	325.93	4.25E+04
	10	338-	351	344.76	172.05	5.07E+03	375.12	4.91E+04
	11	356-	367	360.33	179.83	2.15E+03	320.97	4.02E+04
	12	377-	387	380.62	189.97	2.85E+03	292.71	3.47E+04
	13	390-	400	393.40	196.37	4.45E+03	287.79	3.27E+04
	14	413-	425	417.99	208.66	5.92E+04	453.59	5.33E+04
	15	450-	460	452.79	226.06	4.45E+02	224.33	2.09E+04
	16	483-	495	488.37	243.85	1.42E+03	241.72	2.16E+04
	17	509-	520	512.75	256.04	3.83E+03	218.24	1.74E+04
M	18	525-	544	529.72	264.52	1.24E+03	99.58	1.21E+04
m	19	525-	544	537.01	268.17	2.69E+03	151.64	1.03E+04
	20	592-	604	596.93	298.13	2.29E+03	199.74	1.43E+04
	21	622-	630	625.68	312.51	3.35E+03	153.70	9.46E+03
M	22	638-	656	644.10	321.72	2.57E+03	131.97	1.20E+04
m	23	638-	656	648.92	324.13	3.64E+03	150.45	1.22E+04
M	24	659-	681	667.43	333.38	2.62E+04	267.94	9.32E+03
m	25	659-	681	673.35	336.34	8.67E+03	138.10	1.10E+04
M	26	681-	699	684.90	342.12	2.85E+03	84.92	6.34E+03
m	27	681-	699	692.01	345.67	2.36E+04	257.73	6.54E+03
	28	721-	730	725.61	362.47	2.08E+02	120.30	6.29E+03
	29	730-	746	738.47	368.90	4.69E+02	261.15	2.02E+04
	30	746-	759	752.09	375.71	4.43E+04	361.20	2.85E+04
M	31	759-	775	762.42	380.88	9.94E+03	155.81	6.61E+03
m	32	759-	775	767.58	383.46	9.80E+03	148.59	4.95E+03
	33	780-	795	787.80	393.56	2.16E+04	191.93	5.08E+03
	34	821-	837	829.42	414.38	5.74E+04	264.00	3.92E+03
	35	837-	851	847.16	423.24	2.50E+03	126.29	4.58E+03
	36	899-	912	904.99	452.16	6.96E+03	104.91	1.47E+03
	37	961-	973	965.43	482.38	2.17E+02	49.29	8.33E+02

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	38	1016-	1032	1024.83	512.08	4.20E+02	55.68	8.57E+02
	39	1231-	1248	1239.85	619.59	6.17E+02	45.13	4.37E+02
	40	1260-	1272	1268.24	633.79	5.65E+01	29.30	3.05E+02
	41	1290-	1300	1293.92	646.62	2.40E+02	33.64	3.69E+02
	42	1300-	1315	1307.06	653.20	2.38E+02	47.92	6.66E+02
M	43	1315-	1335	1319.65	659.49	2.04E+02	20.61	3.23E+02
m	44	1315-	1335	1326.94	663.14	2.90E+03	84.87	2.42E+02
	45	1371-	1385	1379.56	689.44	2.42E+02	30.92	2.48E+02
	46	1405-	1414	1409.61	704.47	7.99E+01	19.80	1.38E+02
	47	1441-	1454	1446.08	722.70	1.37E+03	45.65	2.61E+02
	48	1505-	1522	1514.32	756.82	1.50E+02	25.84	1.58E+02
	49	1532-	1549	1540.65	769.99	3.87E+02	29.81	1.55E+02
	50	4466-	4483	4472.99	2236.16	1.73E+05	417.88	3.19E+02

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Summed Spectrum

Nuclide Identification Report

Sample ID: S100-2652
Nuclide Library Used: C:\WAS\NLIB\LLNL.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (uCi/)	Activity Uncertainty
Pulser	0.998	2236.00*	100.00	7.331E+02	2.001E+02
Np-237	0.741	300.10	6.63		
		311.90*	38.60	7.846E+00	3.682E-01
Pu-239	0.968	413.70*	0.00	4.312E+06	8.566E+04
Pu-239A	0.969	129.29*	0.01	1.223E+06	3.442E+04
Am-241	0.964	662.42*	0.00	1.199E+06	3.756E+04
Am-241D	0.966	722.01*	0.00	1.240E+06	4.367E+04
Pu-241	0.968	148.57*	0.00	3.567E+06	1.660E+05

* = Energy line found in the spectrum.
Energy Tolerance : 1.500 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 4-02-08 8:31:08 AM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192

	Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
	1	32.03	1.0521E+02	1.93
	2	50.04	7.1576E+01	5.13
	3	60.14	3.0136E+03	0.34
	4	75.65	2.2285E+01	17.48
	5	99.34	1.0395E+03	0.74
	6	111.67	2.1193E+02	2.39
	7	116.26	1.0189E+02	6.62
	10	172.05	4.6977E+01	7.40
	11	179.83	1.9879E+01	14.95
	12	189.97	2.6365E+01	10.28
	13	196.37	4.1242E+01	6.47
	14	208.66	5.4784E+02	0.81
	15	226.06	4.1205E+00	50.41
	16	243.85	1.3130E+01	17.05
	17	256.04	3.5419E+01	5.71
M	18	264.52	1.1473E+01	8.04
m	19	268.17	2.4882E+01	5.65
	20	298.13	2.1200E+01	8.73
M	22	321.72	2.3810E+01	5.14
m	23	324.13	3.3722E+01	4.14
M	24	333.38	2.4267E+02	1.06
m	25	336.34	8.0261E+01	1.61
M	26	342.12	2.6358E+01	2.99
m	27	345.67	2.1847E+02	1.12
	28	362.47	1.9231E+00	57.92
	29	368.90	4.3447E+00	55.65
	30	375.71	4.0995E+02	0.86
M	31	380.88	9.2013E+01	1.59
m	32	383.46	9.0701E+01	1.54
	33	393.56	1.9999E+02	0.93
	35	423.24	2.3186E+01	5.05
	36	452.16	6.4470E+01	1.53
	37	482.38	2.0066E+00	22.75
	38	512.08	3.8845E+00	13.27
	39	619.59	5.7142E+00	7.32
	40	633.79	5.2354E-01	51.82
	41	646.62	2.2253E+00	14.00
	42	653.20	2.2005E+00	20.16
M	43	659.49	1.8890E+00	10.10
	45	689.44	2.2379E+00	12.80
	46	704.47	7.4005E-01	24.77
	48	756.82	1.3862E+00	17.26
	49	769.99	3.5878E+00	7.70

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Combined Segment NID

NID Results Combiner Mode: Sum Activities

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		8.14E+02	+/-	1.20E+02	3.67E-02	+/-	5.40E-03
SE-75	<	5.61E-01	+/-	3.78E-02	< 2.53E-05	+/-	1.70E-06
EU-152x	<	2.60E-01	+/-	1.79E-02	< 1.17E-05	+/-	8.07E-07
U-233	<	3.08E+04	+/-	2.49E+03	< 1.39E+00	+/-	1.12E-01
U-235		6.55E-02	+/-	3.71E-02	2.95E-06	+/-	1.67E-06
Np-237		9.10E+00	+/-	5.33E-01	4.10E-04	+/-	2.40E-05
Pu-238	<	5.20E+04	+/-	5.92E+03	< 2.34E+00	+/-	2.67E-01
U-238		3.19E+00	+/-	9.72E-01	1.44E-04	+/-	4.38E-05
Pu-239		5.37E+06	+/-	1.82E+05	2.42E+02	+/-	8.22E+00
Pu-239A		3.49E+06	+/-	1.40E+05	1.57E+02	+/-	6.31E+00
Am-241		1.40E+06	+/-	6.00E+04	6.32E+01	+/-	2.70E+00
Am-241D		1.48E+06	+/-	6.88E+04	6.67E+01	+/-	3.10E+00
Pu-241		1.12E+07	+/-	7.17E+05	5.03E+02	+/-	3.23E+01

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
U-235	3.03E-02	+/-	1.72E-02
Np-237	1.29E-02	+/-	7.56E-04
U-238	9.52E+00	+/-	2.90E+00
Pu-239	8.64E+01	+/-	2.94E+00
Pu-239A	5.61E+01	+/-	2.25E+00
Am-241	4.10E-01	+/-	1.75E-02
Pu-241	1.08E-01	+/-	6.93E-03

Summed Spectrum

Nuclide		Total Activity (uCi)		Concentration (uCi/g)
Pulser		7.33E+02 +/- 2.00E+02		3.30E-02 +/- 9.01E-03
SE-75	<	1.21E+00 +/- 1.34E-02	<	5.44E-05 +/- 6.06E-07
EU-152x	<	6.18E-01 +/- 1.29E-02	<	2.78E-05 +/- 5.83E-07
U-233	<	7.02E+04 +/- 1.77E+03	<	3.16E+00 +/- 7.99E-02
U-235	<	1.66E+00 +/- 4.32E-02	<	7.50E-05 +/- 1.95E-06
Np-237		7.85E+00 +/- 3.68E-01		3.53E-04 +/- 1.66E-05
Pu-238	<	1.23E+05 +/- 2.88E+03	<	5.53E+00 +/- 1.30E-01
U-238	<	1.41E+01 +/- 2.32E-01	<	6.35E-04 +/- 1.04E-05
Pu-239		4.31E+06 +/- 8.57E+04		1.94E+02 +/- 3.86E+00
Pu-239A		1.22E+06 +/- 3.44E+04		5.51E+01 +/- 1.55E+00
Am-241		1.20E+06 +/- 3.76E+04		5.40E+01 +/- 1.69E+00
Am-241D		1.24E+06 +/- 4.37E+04		5.59E+01 +/- 1.97E+00
Pu-241		3.57E+06 +/- 1.66E+05		1.61E+02 +/- 7.48E+00

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)
Np-237	1.11E-02 +/- 5.23E-04
Pu-239	6.94E+01 +/- 1.38E+00
Pu-239A	1.97E+01 +/- 5.54E-01
Am-241	3.50E-01 +/- 1.10E-02
Pu-241	3.45E-02 +/- 1.61E-03

Final Non-Uniformity Results

Source Longitudinal Ratio: 0.970 +/- 24.2283
Matrix Longitudinal Ratio: 0.748 +/- 0.0535

Source Vertical Ratio: 0.892 +/- 0.4653
Matrix Vertical Ratio: 0.846 +/- 0.0219

NUDS could not find the transmission peak in one radial segment.

Radioassay Data Sheet — Mon Apr 7 11:29:05 2008
Procedure ID & Rev: WCP-55 03/07/2002 — Software Version: GWAS v2.3bGEN

Drum ID	: S100-2658	Gross Weight (kg)	: 54.0
Sequence Number	: 2658	Fill Height (%)	: 100.0
Assay Date	: 04/07/08 10:06:39	Density (g/cc)	: 0.11
		Net Weight (kg)	: 22.20
Batch Number	:	Waste Matrix Code	:
Site ID	:	TRUCON	:

	Errors at 1.00 Sigma		
TRU Alpha Activity Concentration:	4.06e-04	+/- 4.91e-05	Ci/g
Total Pu-239 Equiv Activity:	9.38e+00	+/- 1.09e+00	Ci
Total Pu-239 Fissile Gram Equiv:	9.86e+01	+/- 1.67e+01	g
Decay Heat:	2.88e-01	+/- 3.44e-02	W
Total Pu Mass:	1.04e+02	+/- 1.68e+01	g
TMU:	17.08%		
Waste Classification:	TRU		

Isotopics Data

Measured Isotope	MGA Report Weight %	MGA Report % Err (1.00 Sigma)
Pu-238	8.58e-03	6.51e+00
Pu-239	9.42e+01	4.78e-02
Pu-240	5.56e+00	8.03e-01
Pu-241	1.78e-01	6.37e-01
Pu-242	3.06e-02	1.00e+01
Am-241	4.95e-01	4.44e-01
Am-243	0.00e+00	0.00e+00
Np-237	0.00e+00	0.00e+00
U-235	0.00e+00	0.00e+00

Activity Errors

Isotope	Isotope Mass (g)	1.00 Sigma Error/Isotope Mass (g)	Alpha Activity/ Isotope (Ci)	1.00 Sigma Error/Isotope (Ci)	MDA (g)
Pu-238	8.92e-03	1.63e-03	1.53e-01	2.79e-02	3.02e-03
Pu-239	9.80e+01	1.67e+01	6.08e+00	1.04e+00	3.05e-01
Pu-240	5.78e+00	9.89e-01	1.31e+00	2.24e-01	0.00e+00
Pu-241	1.85e-01	3.16e-02	1.91e+01	3.26e+00	5.33e-03
Pu-242	3.18e-02	6.29e-03	1.25e-04	2.47e-05	0.00e+00
Am-241	4.30e-01	7.21e-02	1.47e+00	2.47e-01	6.40e-03
Am-243	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
Np-237	1.20e-02	2.10e-03	8.47e-06	1.48e-06	1.72e-03
*U-235	<LLD	0.00e+00	0.00e+00	0.00e+00	3.34e-01
*U-238	<LLD	0.00e+00	0.00e+00	0.00e+00	1.48e+01
*U-233	<LLD	0.00e+00	0.00e+00	0.00e+00	3.19e+00
CS-137	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
U-234	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
SR-90	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00

* = Activity/Mass below detectable limit.

Operator Signature _____ Date _____

Reviewer Signature _____ Date _____

AUTOMATED INDEPENDENT TECHNICAL REVIEW BASED ON WCP-55 03/07/2002

Software Version: GWAS v2.3bGEN
Counter Number: SGS
Data Review for Container: S100-2658
Item Description Code: \Count Type: DEBRIS
Sequence Number: 2658
Assayed on: 04/07/08 10:06:39
Report Generated: 04/07/08 11:28:50
AITR Version 1.4

Section 1 MGA Analysis Review Using MGA Isotopics

REVIEW Pu-240 Wt Pct +2 Sigma error <5.65> less than <5.87> Review MGA Results
Pu-240 Wt Pct error <0.80> is within limits
Pu-238 Wt Pct error <6.51> is within limits
REVIEW QFIT <1.32> > <1.20> Review MGA Results

Section 2 - CONTAINER DENSITY REVIEW

Container density <0.107> g/cc is within UPPER and LOWER limits

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Section 3 - SELF-ABSORPTION REVIEW

Pu-239/Pu-239a ratio <1.36e+00> is within limits

Section 4 - PULSER REVIEW

DEAD TIME percentage <1.53> is acceptable in Segment 1
Pulser value <0.99> is within range in Segment 1
DEAD TIME percentage <1.93> is acceptable in Segment 2
Pulser value <0.99> is within range in Segment 2
DEAD TIME percentage <4.30> is acceptable in Segment 3
Pulser value <1.00> is within range in Segment 3
DEAD TIME percentage <14.74> is acceptable in Segment 4
Pulser value <1.00> is within range in Segment 4
DEAD TIME percentage <26.86> is acceptable in Segment 5
Pulser value <0.98> is within range in Segment 5
DEAD TIME percentage <26.88> is acceptable in Segment 6
REVIEW Pulser value <0.98> out of range in Segment 6
DEAD TIME percentage <16.66> is acceptable in Segment 7
Pulser value <1.00> is within range in Segment 7
DEAD TIME percentage <6.04> is acceptable in Segment 8
Pulser value <1.00> is within range in Segment 8
DEAD TIME percentage <2.01> is acceptable in Segment 9
Pulser value <1.00> is within range in Segment 9
DEAD TIME percentage <1.50> is acceptable in Segment 10
Pulser value <0.99> is within range in Segment 10
DEAD TIME percentage <1.25> is acceptable in Segment 11
Pulser value <1.00> is within range in Segment 11
DEAD TIME percentage <1.06> is acceptable in Segment 12
Pulser value <0.98> is within range in Segment 12
DEAD TIME percentage <0.86> is acceptable in Segment 13
Pulser value <1.00> is within range in Segment 13
DEAD TIME percentage <0.77> is acceptable in Segment 14
Pulser value <0.98> is within range in Segment 14
DEAD TIME percentage <0.68> is acceptable in Segment 15
Pulser value <1.00> is within range in Segment 15
DEAD TIME percentage <0.70> is acceptable in Segment 16
Pulser value <0.99> is within range in Segment 16

Section 5 - TRANSMISSION REVIEW

Transmission results are acceptable in Segment 1
Transmission results are acceptable in Segment 2
Transmission results are acceptable in Segment 3
Transmission results are acceptable in Segment 4
Transmission results are acceptable in Segment 5
Transmission results are acceptable in Segment 6
Transmission results are acceptable in Segment 7
Transmission results are acceptable in Segment 8

Transmission results are acceptable in Segment 9
Transmission results are acceptable in Segment 10
Transmission results are acceptable in Segment 11
Transmission results are acceptable in Segment 12
Transmission results are acceptable in Segment 13
Transmission results are acceptable in Segment 14
Transmission results are acceptable in Segment 15
Transmission results are acceptable in Segment 16

Section 6 - REDUCED CHI SQUARED FIT REVIEW

REVIEW Reduced chi squared fit value <6.47e+00> exceeds limit <3.00> for energy peak <129.97> in Segment 4
REVIEW Reduced chi squared fit value <1.64e+01> exceeds limit <3.00> for energy peak <129.93> in Segment 5
REVIEW Reduced chi squared fit value <1.43e+01> exceeds limit <3.00> for energy peak <129.94> in Segment 6
REVIEW Reduced chi squared fit value <4.68e+00> exceeds limit <3.00> for energy peak <663.19> in the .A04

Section 7 - FGE MASS REVIEW

REVIEW FGE Mass <115.30> > <110.00>

Section 8 - PERCENT FULL REVIEW

Percent Full <100.0> is above lower limit <30.0>

Section 9 - IDC COUNT TYPE REVIEW

REVIEW IDC is not available

Section 10 - AM-241 & NP-237 INTERFERENCE REVIEW

Am-241 ratio <228.09> is above lower limit <200.00>
Np-237 ratio <8158.56> is above lower limit <125.00>

Section 11 - PU-239 CALIBRATION RANGE REVIEW

Pu-239 <98.01> is within limits

Section 12 - CS-137 INTERFERENCE REVIEW

Am-241D > Am-241A: Calculation not performed

Independent Reviewer:_____Date:_____

INDEPENDENT TECHNICAL REVIEW COMMENT SHEET

Counter Number: SGS
Data Review for Container: S100-2658
Item Description Code:
Sequence Number: 2658
Assayed on: 04/07/08 10:06:39
AITR Version 1.4

Comments	Disposition
SECTION 1 - MGA Pu-240 Wt Pct +2 Sigma error is less than lower limit. QFIT is greater than upper limit.	
SECTION 4 - PULSER Pulser value out of range in Segment 6	
SECTION 6 - REDUCED CHI SQUARED FIT Chi square failure for 130.0 Kev in Segment 4 Chi square failure for 129.9 Kev in Segment 5 Chi square failure for 129.9 Kev in Segment 6 Chi square failure for 663.2 KeV in .A04 Spectrum.	
SECTION 7 - PGE MASS PGE Mass is greater than upper limit.	
SECTION 9 - IDC COUNT TYPE IDC is not available.	

Technical Reviewer:_____ Date:_____

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***** M G A R E P O R T *****
****

Report generated on: 4-07-08 11:03:11 AM

MGA version: MGA V9.5 CI

Spectrum ID: 11202658.CNF Sens : 30.0% LT: 46.6 Mins DT: 16.60
Measurement date: 4-07-08 Declared date: 4-07-08

Sample ID: S100-2658 Detector: Total counts: 1.298E+07

Pu g/cm2 = 0.7880 Cd g/cm2 = 1.8004 FWHM at 122 keV = 614 eV
QFIT = 1.32 FWHM at 208 keV = 780 eV
NQFIT = 1.02

Isotope	Relative to Pu-239	%* Err	% Err	Relative to Pu-241	%* Err	Isotope analysis at Meas. date % weight	%Err	Decl. date % weight	%Err
Pu-238	0.000091	6.5	6.5	0.0483	6.5	0.00858	6.51	0.00858	6.51
Pu-239	1.000000	0.0	0.4	530.5850	0.6	94.22321	0.05	94.22321	0.05
Pu-240	0.059009	0.9	0.8	31.3096	1.0	5.56006	0.80	5.56006	0.80
Pu-241	0.001885	0.6	0.6	1.0000	0.0	0.17758	0.64	0.17758	0.64
Pu-242	(New alg.)			0.1721	(10)	0.03057	(10)	0.03057	(10)
Am-241	0.005252	0.5	0.3	2.7864	0.6	0.49482	0.44	0.49482	0.44

Pu-240 effective (meas. date) = 5.633 +/- 0.87%
Am-241 separated about 27.571 +/- 0.147 years ago
Am/Pu-241 weight ratio = 2.78642 +/- 0.65%

Messages :

Lead x-rays detected.
17 MGA parameter(s) defaulted, starting from parameter 8.

Notes : * = Error in ratio
1.000 sigma errors

Gamma Waste Assay

Sample Information

File Name: C:\WAS\DATA\2700\11102658.S11
Sample ID: S100-2658 Count Sequence Number: 2658
Assay Start: 4-07-08 10:06:41 AM
Description 1:
Description 2:
Location:
Comment:
Waste Type:
Weight: Gross: 54000.0 g Net: 22200.0 g
Density: 0.107 g /ml

Container Type: 55 Gal Galv
Container: Volume: 208000. ml Full: 100.0 %

System Configuration

Counter ID Number:	SGS		
Arrangement Description:	SGS		
Segments:	Number: 16	Offset:	0
Scanning Platform:	Start: 934 mm	Delta:	-51 mm
Count Type:	Daily 100g Drum Check		
Collimator/Geometry Setting:	0		
Transmission Mode:	Two pass		
Transmission Source:	0		

Errors quoted at 1.000 sigma
Reference Source Date: Reference Source Rate: 1.00E+02 cps
Geometric Correction Factor(SWCONTGCF): 0.760
Date of efficiency calibration approval: 8-27-2003 2:05:34 PM
Mu Factors response file: Lucite
Transmission Calib. Time: 12-11-2007 9:07:38 AM 22209

Reviewed by: _____ Date: _____

Segment Results

Segment: 1 Detector: DET01 (# 1) Position: 1

Elapsed Live Time: 113.24 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.357 +/- 0.0124
SE-75	264.65	0.000 +/- 0.0000	0.456 +/- 0.0042
SE-75	279.53	0.000 +/- 0.0000	0.461 +/- 0.0066
SE-75	400.65	0.000 +/- 0.0000	0.515 +/- 0.0097

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.87	1.12E+00 +/- 1.96E-01	1.96E+00	4.15E-10 +/- 2.97E-09
	2	49.16	2.67E+00 +/- 5.42E-01	1.65E+00	6.75E-07 +/- 2.05E-06
	3	60.07	7.47E+00 +/- 5.74E-01	1.58E+00	6.24E-06 +/- 1.16E-05
M	4	67.91	6.15E-01 +/- 1.63E-01	1.55E+00	1.80E-05 +/- 2.35E-05
m	5	69.90	4.33E-01 +/- 1.50E-01	1.54E+00	2.25E-05 +/- 2.68E-05
	6	662.42	3.90E-02 +/- 3.51E-02	1.21E+00	1.27E-04 +/- 8.85E-06
	7	722.01	3.18E-02 +/- 2.19E-02	1.20E+00	1.18E-04 +/- 7.51E-06
	8	1001.03	3.37E-02 +/- 2.89E-02	1.17E+00	9.18E-05 +/- 4.92E-06
	9	1085.91	2.91E-02 +/- 1.95E-02	1.16E+00	8.64E-05 +/- 4.52E-06
	10	1408.01	4.39E-02 +/- 1.96E-02	1.14E+00	6.92E-05 +/- 5.19E-06
	11	2236.00	1.00E+02 +/- 1.50E+00	1.11E+00	3.40E-05 +/- 2.15E-05

Segment: 2 Detector: DET01 (# 1) Position: 2

Elapsed Live Time: 112.78 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.412 +/- 0.0148
SE-75	264.65	0.000 +/- 0.0000	0.536 +/- 0.0045
SE-75	279.53	0.000 +/- 0.0000	0.540 +/- 0.0072
SE-75	400.65	0.000 +/- 0.0000	0.588 +/- 0.0105

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.75	1.19E+00 +/- 2.05E-01	1.81E+00	1.81E-05 +/- 1.14E-04
2	49.20	3.13E+00 +/- 5.94E-01	1.55E+00	7.97E-05 +/- 2.11E-04
3	60.01	1.62E+01 +/- 7.07E-01	1.49E+00	1.32E-04 +/- 2.14E-04
4	67.75	1.53E+00 +/- 5.31E-01	1.46E+00	1.71E-04 +/- 1.97E-04
5	95.28	3.58E+00 +/- 1.07E+00	1.41E+00	2.95E-04 +/- 9.02E-05
6	99.36	1.47E+00 +/- 7.81E-01	1.41E+00	3.09E-04 +/- 7.51E-05
7	375.55	2.05E-01 +/- 1.26E-01	1.22E+00	3.13E-04 +/- 1.75E-05
8	867.39	4.74E-02 +/- 2.79E-02	1.14E+00	1.44E-04 +/- 6.91E-06
9	1112.12	8.78E-03 +/- 8.78E-03	1.12E+00	1.18E-04 +/- 5.17E-06
10	2236.00	1.00E+02 +/- 1.51E+00	1.09E+00	9.73E-05 +/- 5.41E-05

Segment: 3 Detector: DET01 (# 1) Position: 3

Elapsed Live Time: 110.05 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.359 +/- 0.0145
SE-75	264.65	0.000 +/- 0.0000	0.474 +/- 0.0086
SE-75	279.53	0.000 +/- 0.0000	0.470 +/- 0.0102
SE-75	400.65	0.000 +/- 0.0000	0.521 +/- 0.0131

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)		Correction Factor	Original Efficiency		
	1	31.96	4.47E+00	4.20E-01	1.95E+00	3.39E-06		3.25E-06
	2	60.15	7.69E+01	1.52E+00	1.57E+00	8.07E-05		2.79E-05
	3	67.84	2.43E+00	7.73E-01	1.54E+00	1.20E-04		3.24E-05
	4	99.39	3.09E+01	1.47E+00	1.48E+00	2.97E-04		3.03E-05
	5	111.66	7.02E+00	1.10E+00	1.46E+00	3.54E-04		2.60E-05
M	6	125.97	4.66E+00	4.06E-01	1.45E+00	4.08E-04		2.26E-05
m	7	129.98	2.58E+01	9.69E-01	1.44E+00	4.20E-04		2.22E-05
	8	148.57	1.80E+00	6.99E-01	1.42E+00	4.63E-04		2.25E-05
	9	190.08	1.05E+00	5.65E-01	1.38E+00	4.95E-04		2.59E-05
	10	208.69	1.82E+01	7.83E-01	1.36E+00	4.92E-04		2.59E-05
	11	256.20	8.47E-01	3.56E-01	1.32E+00	4.58E-04		2.28E-05
	12	268.36	6.60E-01	4.29E-01	1.31E+00	4.47E-04		2.17E-05
M	13	333.48	7.50E+00	4.88E-01	1.29E+00	3.84E-04		1.63E-05
m	14	336.40	2.54E+00	2.60E-01	1.29E+00	3.81E-04		1.61E-05
M	15	342.07	5.86E-01	1.59E-01	1.29E+00	3.76E-04		1.58E-05
m	16	345.74	6.52E+00	4.66E-01	1.29E+00	3.72E-04		1.56E-05
	17	368.79	2.30E+00	3.54E-01	1.28E+00	3.52E-04		1.44E-05
	18	375.78	1.27E+01	6.08E-01	1.28E+00	3.46E-04		1.41E-05
M	19	380.88	2.63E+00	2.68E-01	1.27E+00	3.42E-04		1.38E-05
m	20	383.50	2.61E+00	2.59E-01	1.27E+00	3.40E-04		1.37E-05
	21	393.62	6.05E+00	3.28E-01	1.27E+00	3.31E-04		1.34E-05
	22	413.70	1.67E+01	4.75E-01	1.26E+00	3.16E-04		1.28E-05
	23	423.32	8.40E-01	1.39E-01	1.26E+00	3.09E-04		1.26E-05
	24	452.19	1.80E+00	1.96E-01	1.25E+00	2.89E-04		1.20E-05
	25	619.66	9.98E-02	5.71E-02	1.21E+00	2.09E-04		1.01E-05
	26	646.75	8.74E-02	5.40E-02	1.21E+00	2.00E-04		9.81E-06
	27	662.42	7.63E-01	1.07E-01	1.21E+00	1.95E-04		9.62E-06
	28	722.01	4.03E-01	9.29E-02	1.20E+00	1.79E-04		8.87E-06
	29	867.39	2.55E-02	2.17E-02	1.18E+00	1.51E-04		6.93E-06
	30	964.13	9.07E-03	9.07E-03	1.17E+00	1.39E-04		5.75E-06
	31	1001.03	2.72E-02	1.57E-02	1.16E+00	1.35E-04		5.37E-06
	32	1085.91	4.54E-02	2.03E-02	1.15E+00	1.28E-04		4.75E-06
	33	1112.12	9.07E-03	9.07E-03	1.15E+00	1.27E-04		4.65E-06
	34	2236.00	1.00E+02	1.52E+00	1.11E+00	1.32E-04		3.24E-05

Segment: 4 Detector: DET01 (# 1) Position: 4

Elapsed Live Time: 98.05 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.301 +/- 0.0204
SE-75	264.65	0.000 +/- 0.0000	0.505 +/- 0.0051
SE-75	279.53	0.000 +/- 0.0000	0.499 +/- 0.0082
SE-75	400.65	0.000 +/- 0.0000	0.539 +/- 0.0116

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.01	1.75E+01 +/- 8.76E-01	2.15E+00	1.16E-07 +/- 7.12E-07
	2	49.99	4.85E+00 +/- 1.25E+00	1.77E+00	1.05E-05 +/- 2.63E-05
	3	60.15	4.51E+02 +/- 6.19E+00	1.69E+00	3.61E-05 +/- 5.75E-05
	4	75.35	4.61E+00 +/- 1.93E+00	1.62E+00	1.10E-04 +/- 8.86E-05
	5	99.37	1.80E+02 +/- 3.79E+00	1.57E+00	2.64E-04 +/- 6.34E-05
	6	111.67	3.68E+01 +/- 2.16E+00	1.55E+00	3.35E-04 +/- 3.63E-05
	7	116.27	2.05E+01 +/- 2.88E+00	1.55E+00	3.58E-04 +/- 2.83E-05
M	8	125.94	2.30E+01 +/- 8.40E-01	1.53E+00	3.99E-04 +/- 2.37E-05
m	9	129.97	1.64E+02 +/- 2.98E+00	1.53E+00	4.14E-04 +/- 2.68E-05
	10	148.57	1.79E+01 +/- 1.27E+00	1.49E+00	4.63E-04 +/- 4.66E-05
	11	172.09	6.26E+00 +/- 1.41E+00	1.44E+00	4.88E-04 +/- 5.77E-05
	12	179.91	4.18E+00 +/- 1.13E+00	1.42E+00	4.90E-04 +/- 5.79E-05
	13	189.77	5.55E+00 +/- 1.28E+00	1.40E+00	4.89E-04 +/- 5.65E-05
	14	196.31	6.04E+00 +/- 1.35E+00	1.39E+00	4.87E-04 +/- 5.48E-05
	15	208.67	9.84E+01 +/- 2.19E+00	1.37E+00	4.80E-04 +/- 5.05E-05
	16	244.70	2.74E+00 +/- 1.10E+00	1.31E+00	4.48E-04 +/- 3.50E-05
	17	256.09	6.13E+00 +/- 8.89E-01	1.29E+00	4.36E-04 +/- 3.05E-05
M	18	264.65	1.87E+00 +/- 3.80E-01	1.28E+00	4.27E-04 +/- 2.75E-05
m	19	268.21	4.44E+00 +/- 6.04E-01	1.28E+00	4.23E-04 +/- 2.63E-05
	20	298.15	3.30E+00 +/- 7.26E-01	1.28E+00	3.91E-04 +/- 1.92E-05
	21	311.90	4.29E+00 +/- 7.38E-01	1.28E+00	3.77E-04 +/- 1.75E-05
M	22	321.78	4.07E+00 +/- 5.87E-01	1.27E+00	3.68E-04 +/- 1.69E-05
m	23	324.08	5.54E+00 +/- 6.39E-01	1.27E+00	3.66E-04 +/- 1.68E-05
M	24	333.42	4.37E+01 +/- 1.21E+00	1.27E+00	3.57E-04 +/- 1.65E-05
m	25	336.37	1.53E+01 +/- 6.07E-01	1.27E+00	3.54E-04 +/- 1.65E-05
M	26	342.10	4.77E+00 +/- 3.48E-01	1.27E+00	3.49E-04 +/- 1.65E-05
m	27	345.71	4.04E+01 +/- 1.18E+00	1.27E+00	3.46E-04 +/- 1.65E-05
	28	368.88	4.98E+00 +/- 9.79E-01	1.26E+00	3.26E-04 +/- 1.70E-05
	29	375.75	7.40E+01 +/- 1.75E+00	1.26E+00	3.21E-04 +/- 1.71E-05
M	30	380.90	1.77E+01 +/- 6.91E-01	1.26E+00	3.17E-04 +/- 1.72E-05
m	31	383.50	1.65E+01 +/- 6.39E-01	1.26E+00	3.15E-04 +/- 1.73E-05
	32	393.59	3.80E+01 +/- 9.16E-01	1.25E+00	3.08E-04 +/- 1.75E-05
	33	413.70	9.79E+01 +/- 1.62E+00	1.25E+00	2.94E-04 +/- 1.78E-05
	34	423.31	7.09E+00 +/- 3.81E-01	1.25E+00	2.87E-04 +/- 1.79E-05
	35	452.24	1.15E+01 +/- 4.72E-01	1.24E+00	2.70E-04 +/- 1.78E-05
	36	619.70	8.93E-01 +/- 1.82E-01	1.20E+00	2.02E-04 +/- 1.27E-05
	37	633.57	2.00E-01 +/- 9.18E-02	1.20E+00	1.98E-04 +/- 1.22E-05
	38	646.96	3.95E-01 +/- 1.25E-01	1.20E+00	1.94E-04 +/- 1.18E-05
	39	653.48	5.63E-01 +/- 1.76E-01	1.20E+00	1.93E-04 +/- 1.16E-05

M	40	659.51	3.71E-01	+/-	8.59E-02	1.20E+00	1.91E-04	+/- 1.14E-05
m	41	663.20	5.28E+00	+/-	3.70E-01	1.19E+00	1.90E-04	+/- 1.12E-05
	42	689.68	5.23E-01	+/-	1.26E-01	1.19E+00	1.84E-04	+/- 1.05E-05

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	722.01	2.67E+00 +/- 1.82E-01	1.19E+00	1.77E-04 +/- 9.59E-06
44	757.21	2.00E-01 +/- 7.39E-02	1.18E+00	1.70E-04 +/- 8.81E-06
45	770.03	7.79E-01 +/- 1.12E-01	1.18E+00	1.68E-04 +/- 8.56E-06
46	942.48	6.11E-02 +/- 3.22E-02	1.16E+00	1.43E-04 +/- 6.68E-06
47	2236.00	1.00E+02 +/- 1.60E+00	1.10E+00	7.00E-05 +/- 3.84E-05
48	2295.27	8.98E-02 +/- 3.47E-02	1.10E+00	6.80E-05 +/- 4.07E-05

Segment: 5 Detector: DET01 (# 1) Position: 5

Elapsed Live Time: 84.11 sec Elapsed Real Time: 115.00 sec

Analysis Warnings:
Minimum transmission used.

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.005 +/- 0.0025
SE-75	264.65	0.000 +/- 0.0000	0.222 +/- 0.0062
SE-75	279.53	0.000 +/- 0.0000	0.257 +/- 0.0094
SE-75	400.65	0.000 +/- 0.0000	0.369 +/- 0.0140

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.05	3.03E+01 +/- 1.27E+00	4.10E+00	2.78E-07 +/- 1.83E-06
	2	49.97	6.93E+00 +/- 1.88E+00	4.10E+00	1.58E-05 +/- 4.29E-05
	3	60.13	1.08E+03 +/- 1.47E+01	4.10E+00	4.78E-05 +/- 8.22E-05
	4	99.32	3.68E+02 +/- 6.64E+00	4.10E+00	2.77E-04 +/- 7.12E-05
	5	111.66	7.09E+01 +/- 3.23E+00	4.10E+00	3.41E-04 +/- 3.83E-05
	6	116.24	4.36E+01 +/- 4.29E+00	4.10E+00	3.61E-04 +/- 2.90E-05
M	7	125.90	4.63E+01 +/- 1.32E+00	4.10E+00	3.97E-04 +/- 2.36E-05
m	8	129.93	3.28E+02 +/- 5.37E+00	4.10E+00	4.09E-04 +/- 2.72E-05
M	9	144.78	2.09E+01 +/- 9.80E-01	3.26E+00	4.42E-04 +/- 4.48E-05
m	10	146.97	1.77E+01 +/- 9.05E-01	3.15E+00	4.46E-04 +/- 4.69E-05
m	11	149.21	4.58E+01 +/- 1.56E+00	3.05E+00	4.49E-04 +/- 4.89E-05
	12	161.47	3.86E+00 +/- 2.04E+00	2.68E+00	4.62E-04 +/- 5.67E-05
	13	165.22	2.58E+00 +/- 1.50E+00	2.59E+00	4.64E-04 +/- 5.80E-05
	14	172.03	1.36E+01 +/- 1.87E+00	2.47E+00	4.67E-04 +/- 5.93E-05
	15	179.85	9.65E+00 +/- 1.57E+00	2.35E+00	4.67E-04 +/- 5.93E-05
	16	189.93	8.47E+00 +/- 1.37E+00	2.22E+00	4.65E-04 +/- 5.77E-05

	17	196.34	1.68E+01	+/- 1.85E+00	2.15E+00	4.63E-04	+/-	5.58E-05
	18	208.65	2.00E+02	+/- 3.74E+00	2.03E+00	4.56E-04	+/-	5.12E-05
	19	238.41	1.91E+00	+/- 8.20E-01	1.82E+00	4.31E-04	+/-	3.79E-05
	20	244.70	2.32E+00	+/- 1.55E+00	1.78E+00	4.25E-04	+/-	3.51E-05
	21	256.01	1.13E+01	+/- 1.27E+00	1.72E+00	4.14E-04	+/-	3.05E-05
M	22	264.71	3.94E+00	+/- 5.37E-01	1.68E+00	4.06E-04	+/-	2.73E-05
m	23	268.21	9.32E+00	+/- 8.58E-01	1.66E+00	4.03E-04	+/-	2.62E-05
M	24	298.13	6.01E+00	+/- 7.46E-01	1.57E+00	3.74E-04	+/-	1.90E-05
m	25	300.72	1.13E+00	+/- 3.63E-01	1.57E+00	3.72E-04	+/-	1.86E-05
	26	311.90	9.17E+00	+/- 1.25E+00	1.55E+00	3.62E-04	+/-	1.74E-05
M	27	321.65	7.74E+00	+/- 7.23E-01	1.53E+00	3.53E-04	+/-	1.68E-05
m	28	324.05	1.16E+01	+/- 8.51E-01	1.53E+00	3.51E-04	+/-	1.68E-05
M	29	333.37	8.52E+01	+/- 1.94E+00	1.51E+00	3.43E-04	+/-	1.67E-05
m	30	336.33	2.84E+01	+/- 9.06E-01	1.51E+00	3.41E-04	+/-	1.67E-05
M	31	342.15	8.83E+00	+/- 4.96E-01	1.50E+00	3.36E-04	+/-	1.68E-05
m	32	345.66	7.79E+01	+/- 1.86E+00	1.50E+00	3.33E-04	+/-	1.69E-05
	33	368.88	3.50E+00	+/- 1.50E+00	1.47E+00	3.16E-04	+/-	1.77E-05
	34	375.71	1.44E+02	+/- 2.91E+00	1.46E+00	3.11E-04	+/-	1.79E-05
M	35	380.88	3.36E+01	+/- 1.06E+00	1.45E+00	3.07E-04	+/-	1.81E-05
m	36	383.45	3.18E+01	+/- 9.88E-01	1.45E+00	3.06E-04	+/-	1.82E-05
	37	393.55	7.14E+01	+/- 1.49E+00	1.43E+00	2.99E-04	+/-	1.85E-05
	38	413.70	1.90E+02	+/- 2.96E+00	1.42E+00	2.86E-04	+/-	1.90E-05
	39	423.30	1.22E+01	+/- 6.78E-01	1.41E+00	2.81E-04	+/-	1.91E-05
	40	452.13	2.39E+01	+/- 7.19E-01	1.40E+00	2.65E-04	+/-	1.91E-05
	41	482.16	5.39E-01	+/- 2.23E-01	1.39E+00	2.50E-04	+/-	1.87E-05
	42	619.69	1.81E+00	+/- 2.36E-01	1.34E+00	2.01E-04	+/-	1.37E-05

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
	43	646.54	6.69E-01 +/- 2.26E-01	1.33E+00	1.94E-04 +/- 1.27E-05
	44	653.22	9.95E-01 +/- 2.54E-01	1.33E+00	1.92E-04 +/- 1.24E-05
M	45	659.65	5.69E-01 +/- 1.19E-01	1.33E+00	1.91E-04 +/- 1.22E-05
m	46	663.20	1.03E+01 +/- 5.64E-01	1.32E+00	1.90E-04 +/- 1.20E-05
	47	689.73	7.32E-01 +/- 1.54E-01	1.32E+00	1.83E-04 +/- 1.11E-05
	48	722.01	4.80E+00 +/- 2.76E-01	1.31E+00	1.77E-04 +/- 1.01E-05
	49	738.09	1.12E-01 +/- 7.85E-02	1.30E+00	1.73E-04 +/- 9.62E-06
	50	757.11	5.10E-01 +/- 1.00E-01	1.30E+00	1.70E-04 +/- 9.12E-06
	51	770.05	1.28E+00 +/- 1.55E-01	1.30E+00	1.67E-04 +/- 8.82E-06
	52	787.77	9.35E-02 +/- 6.10E-02	1.29E+00	1.64E-04 +/- 8.43E-06
	53	1085.91	3.43E-02 +/- 2.78E-02	1.24E+00	1.26E-04 +/- 5.69E-06
	54	1408.01	3.50E-02 +/- 2.02E-02	1.21E+00	1.00E-04 +/- 6.78E-06
	55	2236.00	1.00E+02 +/- 1.70E+00	1.17E+00	5.76E-05 +/- 3.29E-05

Segment: 6 Detector: DET01 (# 1) Position: 6

Elapsed Live Time: 84.09 sec Elapsed Real Time: 115.00 sec

Analysis Warnings:
Minimum transmission used.

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.005 +/- 0.0025
SE-75	264.65	0.000 +/- 0.0000	0.199 +/- 0.0058
SE-75	279.53	0.000 +/- 0.0000	0.211 +/- 0.0089
SE-75	400.65	0.000 +/- 0.0000	0.326 +/- 0.0134

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.16	3.10E+01 +/- 1.26E+00	4.10E+00	4.90E-07 +/- 3.06E-06
	2	50.08	1.48E+01 +/- 2.01E+00	4.10E+00	2.18E-05 +/- 5.62E-05
	3	60.13	1.01E+03 +/- 1.37E+01	4.10E+00	6.06E-05 +/- 9.92E-05
	4	75.62	7.54E+00 +/- 2.50E+00	4.10E+00	1.53E-04 +/- 1.25E-04
	5	99.32	3.60E+02 +/- 6.52E+00	4.10E+00	3.06E-04 +/- 7.51E-05
	6	111.67	7.34E+01 +/- 3.22E+00	4.10E+00	3.68E-04 +/- 4.00E-05
	7	116.23	6.29E+01 +/- 4.11E+00	4.10E+00	3.88E-04 +/- 3.04E-05
M	8	125.90	4.98E+01 +/- 1.35E+00	4.10E+00	4.21E-04 +/- 2.46E-05
m	9	129.94	3.30E+02 +/- 5.37E+00	4.10E+00	4.33E-04 +/- 2.80E-05

	10	148.57	3.45E+01	+/- 1.85E+00	3.14E+00	4.69E-04	+/-	4.84E-05
	11	161.49	9.44E+00	+/- 1.89E+00	2.75E+00	4.81E-04	+/-	5.63E-05
	12	172.06	1.56E+01	+/- 1.65E+00	2.54E+00	4.85E-04	+/-	5.88E-05
	13	179.81	6.63E+00	+/- 1.68E+00	2.42E+00	4.85E-04	+/-	5.88E-05
	14	189.91	9.10E+00	+/- 1.36E+00	2.29E+00	4.82E-04	+/-	5.72E-05
	15	196.24	1.69E+01	+/- 1.87E+00	2.22E+00	4.80E-04	+/-	5.54E-05
	16	204.17	5.84E+01	+/- 1.90E+00	2.14E+00	4.75E-04	+/-	5.27E-05
	17	208.65	1.58E+02	+/- 3.59E+00	2.10E+00	4.72E-04	+/-	5.09E-05
	18	222.05	2.11E+00	+/- 1.45E+00	1.99E+00	4.63E-04	+/-	4.52E-05
	19	238.48	2.04E+00	+/- 9.05E-01	1.88E+00	4.49E-04	+/-	3.80E-05
	20	256.04	1.21E+01	+/- 1.25E+00	1.78E+00	4.33E-04	+/-	3.09E-05
M	21	264.76	3.11E+00	+/- 4.85E-01	1.74E+00	4.25E-04	+/-	2.78E-05
m	22	268.19	1.05E+01	+/- 8.92E-01	1.73E+00	4.21E-04	+/-	2.67E-05
M	23	298.16	6.85E+00	+/- 7.61E-01	1.66E+00	3.94E-04	+/-	1.97E-05
m	24	300.78	1.84E+00	+/- 4.04E-01	1.66E+00	3.92E-04	+/-	1.93E-05
	25	311.90	1.05E+01	+/- 9.55E-01	1.63E+00	3.82E-04	+/-	1.81E-05
M	26	321.16	5.12E+00	+/- 7.73E-02	1.62E+00	3.75E-04	+/-	1.75E-05
m	27	323.93	1.43E+01	+/- 2.00E-01	1.61E+00	3.72E-04	+/-	1.74E-05
M	28	333.38	8.71E+01	+/- 1.96E+00	1.59E+00	3.65E-04	+/-	1.73E-05
m	29	336.34	2.92E+01	+/- 9.13E-01	1.59E+00	3.62E-04	+/-	1.73E-05
M	30	342.08	8.12E+00	+/- 4.83E-01	1.58E+00	3.58E-04	+/-	1.74E-05
m	31	345.68	7.80E+01	+/- 1.85E+00	1.57E+00	3.55E-04	+/-	1.74E-05
	32	368.93	3.41E+00	+/- 1.55E+00	1.53E+00	3.38E-04	+/-	1.82E-05
	33	375.71	1.43E+02	+/- 2.91E+00	1.52E+00	3.34E-04	+/-	1.84E-05
M	34	380.87	3.51E+01	+/- 1.08E+00	1.51E+00	3.30E-04	+/-	1.86E-05
m	35	383.45	3.25E+01	+/- 9.86E-01	1.51E+00	3.28E-04	+/-	1.87E-05
	36	393.57	7.16E+01	+/- 1.48E+00	1.50E+00	3.22E-04	+/-	1.90E-05
	37	413.70	1.93E+02	+/- 2.98E+00	1.48E+00	3.09E-04	+/-	1.95E-05
	38	452.12	2.30E+01	+/- 7.26E-01	1.46E+00	2.88E-04	+/-	1.97E-05
	39	482.13	1.13E+00	+/- 3.04E-01	1.44E+00	2.73E-04	+/-	1.93E-05
	40	619.88	1.99E+00	+/- 2.68E-01	1.38E+00	2.22E-04	+/-	1.43E-05
	41	633.99	3.96E-01	+/- 1.55E-01	1.38E+00	2.18E-04	+/-	1.37E-05
	42	653.51	1.05E+00	+/- 2.51E-01	1.37E+00	2.13E-04	+/-	1.30E-05

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
M	43	659.59	7.13E-01 +/- 1.19E-01	1.37E+00	2.11E-04 +/- 1.27E-05
m	44	663.15	9.41E+00 +/- 5.42E-01	1.37E+00	2.10E-04 +/- 1.26E-05
	45	689.53	8.57E-01 +/- 1.69E-01	1.36E+00	2.03E-04 +/- 1.16E-05
	46	704.56	2.62E-01 +/- 1.06E-01	1.36E+00	2.00E-04 +/- 1.11E-05
	47	722.01	4.98E+00 +/- 2.73E-01	1.35E+00	1.95E-04 +/- 1.05E-05
	48	757.16	5.76E-01 +/- 1.12E-01	1.34E+00	1.88E-04 +/- 9.52E-06
	49	770.00	1.18E+00 +/- 1.67E-01	1.34E+00	1.85E-04 +/- 9.20E-06
	50	1408.01	2.71E-02 +/- 2.33E-02	1.24E+00	9.88E-05 +/- 6.79E-06
	51	2236.00	1.00E+02 +/- 1.69E+00	1.19E+00	4.34E-05 +/- 2.42E-05

Segment: 7 Detector: DET01 (# 1) Position: 7

Elapsed Live Time: 95.84 sec Elapsed Real Time: 115.00 sec

Analysis Warnings:
Minimum transmission used.

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.005 +/- 0.0025
SE-75	264.65	0.000 +/- 0.0000	0.301 +/- 0.0042
SE-75	279.53	0.000 +/- 0.0000	0.323 +/- 0.0075
SE-75	400.65	0.000 +/- 0.0000	0.433 +/- 0.0108

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.06	1.95E+01 +/- 9.24E-01	4.10E+00	4.97E-09 +/- 2.85E-08
	2	49.92	1.37E+01 +/- 2.03E+00	4.10E+00	2.80E-06 +/- 6.62E-06
	3	60.15	6.57E+02 +/- 8.80E+00	4.10E+00	1.60E-05 +/- 2.38E-05
	4	75.64	6.08E+00 +/- 1.68E+00	4.10E+00	7.55E-05 +/- 5.64E-05
	5	99.35	2.11E+02 +/- 4.24E+00	4.10E+00	2.43E-04 +/- 5.52E-05
	6	111.67	4.43E+01 +/- 2.33E+00	4.10E+00	3.35E-04 +/- 3.49E-05
	7	116.18	3.03E+01 +/- 2.97E+00	4.10E+00	3.65E-04 +/- 2.83E-05
M	8	125.94	2.79E+01 +/- 9.28E-01	4.10E+00	4.24E-04 +/- 2.46E-05
m	9	129.97	1.93E+02 +/- 3.37E+00	4.10E+00	4.45E-04 +/- 2.77E-05
	10	144.77	2.02E+00 +/- 1.34E+00	3.08E+00	5.04E-04 +/- 4.47E-05
	11	148.57	2.33E+01 +/- 1.36E+00	2.89E+00	5.16E-04 +/- 4.85E-05
	12	161.65	2.21E+00 +/- 1.52E+00	2.47E+00	5.43E-04 +/- 5.78E-05
	13	172.04	6.45E+00 +/- 1.48E+00	2.27E+00	5.55E-04 +/- 6.09E-05

	14	179.74	5.55E+00	+/- 1.51E+00	2.16E+00	5.58E-04	+/-	6.12E-05
	15	189.94	5.13E+00	+/- 1.02E+00	2.03E+00	5.58E-04	+/-	5.97E-05
	16	196.40	5.76E+00	+/- 1.40E+00	1.96E+00	5.56E-04	+/-	5.79E-05
	17	204.20	3.56E+01	+/- 1.22E+00	1.89E+00	5.51E-04	+/-	5.50E-05
	18	208.67	8.57E+01	+/- 2.37E+00	1.86E+00	5.47E-04	+/-	5.32E-05
	19	256.04	6.59E+00	+/- 8.63E-01	1.56E+00	4.90E-04	+/-	3.18E-05
M	20	264.54	1.79E+00	+/- 3.64E-01	1.52E+00	4.78E-04	+/-	2.86E-05
m	21	268.19	5.48E+00	+/- 6.55E-01	1.52E+00	4.74E-04	+/-	2.74E-05
	22	298.10	3.10E+00	+/- 9.87E-01	1.46E+00	4.34E-04	+/-	2.02E-05
	23	311.90	5.59E+00	+/- 7.23E-01	1.45E+00	4.17E-04	+/-	1.86E-05
M	24	321.78	4.28E+00	+/- 5.61E-01	1.43E+00	4.05E-04	+/-	1.79E-05
m	25	324.13	6.77E+00	+/- 6.68E-01	1.43E+00	4.02E-04	+/-	1.78E-05
M	26	333.42	4.82E+01	+/- 1.30E+00	1.42E+00	3.91E-04	+/-	1.76E-05
m	27	336.36	1.62E+01	+/- 6.30E-01	1.42E+00	3.88E-04	+/-	1.76E-05
M	28	342.11	4.83E+00	+/- 3.51E-01	1.41E+00	3.82E-04	+/-	1.76E-05
m	29	345.69	4.16E+01	+/- 1.21E+00	1.41E+00	3.78E-04	+/-	1.76E-05
	30	368.97	4.38E+00	+/- 1.08E+00	1.38E+00	3.55E-04	+/-	1.81E-05
	31	375.74	7.83E+01	+/- 1.85E+00	1.38E+00	3.48E-04	+/-	1.82E-05
M	32	380.91	1.87E+01	+/- 7.26E-01	1.37E+00	3.44E-04	+/-	1.83E-05
m	33	383.47	1.73E+01	+/- 6.64E-01	1.37E+00	3.41E-04	+/-	1.84E-05
	34	393.60	4.09E+01	+/- 9.64E-01	1.36E+00	3.33E-04	+/-	1.86E-05
	35	413.70	1.05E+02	+/- 1.74E+00	1.35E+00	3.17E-04	+/-	1.88E-05
	36	423.29	6.78E+00	+/- 3.86E-01	1.34E+00	3.10E-04	+/-	1.88E-05
	37	452.18	1.19E+01	+/- 4.84E-01	1.33E+00	2.90E-04	+/-	1.86E-05
	38	598.28	1.67E-01	+/- 8.45E-02	1.29E+00	2.22E-04	+/-	1.40E-05
	39	619.54	1.13E+00	+/- 1.79E-01	1.28E+00	2.15E-04	+/-	1.32E-05
	40	646.52	4.84E-01	+/- 1.55E-01	1.27E+00	2.08E-04	+/-	1.23E-05
	41	653.35	6.31E-01	+/- 1.72E-01	1.27E+00	2.06E-04	+/-	1.20E-05
	42	662.42	6.03E+00	+/- 2.88E-01	1.27E+00	2.03E-04	+/-	1.17E-05

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	689.45	7.11E-01 +/- 1.22E-01	1.26E+00	1.96E-04 +/- 1.09E-05
44	704.47	1.24E-01 +/- 9.65E-02	1.26E+00	1.93E-04 +/- 1.05E-05
45	722.01	2.69E+00 +/- 1.89E-01	1.26E+00	1.89E-04 +/- 9.99E-06
46	737.90	1.33E-01 +/- 5.48E-02	1.25E+00	1.85E-04 +/- 9.60E-06
47	756.80	1.65E-01 +/- 7.28E-02	1.25E+00	1.82E-04 +/- 9.17E-06
48	770.28	6.04E-01 +/- 1.07E-01	1.25E+00	1.79E-04 +/- 8.89E-06
49	1112.12	6.24E-02 +/- 2.55E-02	1.20E+00	1.32E-04 +/- 5.60E-06
50	2236.00	1.00E+02 +/- 1.62E+00	1.14E+00	5.07E-05 +/- 2.69E-05
51	2286.44	1.28E-01 +/- 6.09E-02	1.14E+00	4.82E-05 +/- 2.76E-05

Segment: 8 Detector: DET01 (# 1) Position: 8

Elapsed Live Time: 108.05 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.357 +/- 0.0163
SE-75	264.65	0.000 +/- 0.0000	0.519 +/- 0.0047
SE-75	279.53	0.000 +/- 0.0000	0.529 +/- 0.0077
SE-75	400.65	0.000 +/- 0.0000	0.562 +/- 0.0107

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.91	3.31E+00 +/- 3.75E-01	1.96E+00	7.47E-06 +/- 7.30E-06
	2	50.30	5.34E+00 +/- 1.00E+00	1.64E+00	6.06E-05 +/- 2.96E-05
	3	60.16	1.98E+02 +/- 2.94E+00	1.58E+00	1.10E-04 +/- 3.84E-05
	4	99.39	6.17E+01 +/- 1.97E+00	1.48E+00	3.25E-04 +/- 3.31E-05
	5	111.71	1.29E+01 +/- 1.31E+00	1.47E+00	3.75E-04 +/- 2.72E-05
	6	115.99	7.19E+00 +/- 1.61E+00	1.46E+00	3.90E-04 +/- 2.56E-05
M	7	125.92	8.77E+00 +/- 4.99E-01	1.45E+00	4.19E-04 +/- 2.31E-05
m	8	129.99	5.75E+01 +/- 1.44E+00	1.45E+00	4.29E-04 +/- 2.26E-05
	9	144.73	2.08E+00 +/- 8.18E-01	1.43E+00	4.57E-04 +/- 2.25E-05
	10	148.57	5.50E+00 +/- 8.02E-01	1.42E+00	4.62E-04 +/- 2.28E-05
	11	171.70	3.44E+00 +/- 9.23E-01	1.38E+00	4.80E-04 +/- 2.51E-05
	12	179.72	1.07E+00 +/- 5.90E-01	1.37E+00	4.81E-04 +/- 2.57E-05
	13	189.94	1.35E+00 +/- 8.25E-01	1.36E+00	4.81E-04 +/- 2.61E-05
	14	196.43	2.82E+00 +/- 8.55E-01	1.35E+00	4.79E-04 +/- 2.62E-05
	15	204.24	9.42E+00 +/- 6.34E-01	1.34E+00	4.76E-04 +/- 2.61E-05
	16	208.68	2.37E+01 +/- 1.15E+00	1.33E+00	4.74E-04 +/- 2.60E-05

	17	244.70	8.05E-01	+/- 5.48E-01	1.29E+00	4.49E-04	+/-	2.38E-05
	18	256.05	1.30E+00	+/- 3.90E-01	1.28E+00	4.39E-04	+/-	2.28E-05
M	19	264.38	9.53E-01	+/- 2.53E-01	1.27E+00	4.32E-04	+/-	2.21E-05
m	20	268.24	2.13E+00	+/- 3.86E-01	1.27E+00	4.28E-04	+/-	2.17E-05
	21	298.17	1.69E+00	+/- 6.42E-01	1.26E+00	4.01E-04	+/-	1.90E-05
	22	311.90	1.86E+00	+/- 5.81E-01	1.25E+00	3.88E-04	+/-	1.78E-05
	23	324.23	2.53E+00	+/- 5.77E-01	1.25E+00	3.77E-04	+/-	1.69E-05
M	24	333.42	1.25E+01	+/- 6.10E-01	1.25E+00	3.69E-04	+/-	1.62E-05
m	25	336.33	4.38E+00	+/- 3.20E-01	1.25E+00	3.67E-04	+/-	1.60E-05
M	26	342.16	1.44E+00	+/- 2.03E-01	1.25E+00	3.62E-04	+/-	1.56E-05
m	27	345.73	1.23E+01	+/- 6.08E-01	1.25E+00	3.59E-04	+/-	1.54E-05
	28	369.04	1.68E+00	+/- 5.33E-01	1.24E+00	3.39E-04	+/-	1.41E-05
	29	375.77	2.17E+01	+/- 8.21E-01	1.24E+00	3.34E-04	+/-	1.38E-05
M	30	380.95	4.83E+00	+/- 3.46E-01	1.24E+00	3.30E-04	+/-	1.36E-05
m	31	383.44	4.82E+00	+/- 3.36E-01	1.24E+00	3.28E-04	+/-	1.35E-05
	32	393.63	9.83E+00	+/- 4.32E-01	1.24E+00	3.21E-04	+/-	1.31E-05
	33	413.70	2.72E+01	+/- 6.30E-01	1.23E+00	3.06E-04	+/-	1.25E-05
	34	423.35	1.24E+00	+/- 2.02E-01	1.23E+00	3.00E-04	+/-	1.22E-05
	35	443.98	3.72E-01	+/- 1.63E-01	1.22E+00	2.87E-04	+/-	1.18E-05
	36	452.19	3.64E+00	+/- 2.24E-01	1.22E+00	2.82E-04	+/-	1.16E-05
	37	646.74	1.64E-01	+/- 6.54E-02	1.18E+00	1.98E-04	+/-	9.58E-06
	38	662.42	1.39E+00	+/- 1.35E-01	1.18E+00	1.93E-04	+/-	9.41E-06
	39	722.01	5.19E-01	+/- 8.21E-02	1.17E+00	1.78E-04	+/-	8.71E-06
	40	770.17	1.53E-01	+/- 6.95E-02	1.17E+00	1.68E-04	+/-	8.12E-06
	41	1001.03	3.82E-02	+/- 2.94E-02	1.14E+00	1.35E-04	+/-	5.36E-06
	42	2236.00	1.00E+02	+/- 1.54E+00	1.10E+00	1.19E-04	+/-	2.92E-05

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)

Segment: 9 Detector: DET01 (# 1) Position: 9

Elapsed Live Time: 112.69 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.346 +/- 0.0130
SE-75	264.65	0.000 +/- 0.0000	0.515 +/- 0.0045
SE-75	279.53	0.000 +/- 0.0000	0.522 +/- 0.0071
SE-75	400.65	0.000 +/- 0.0000	0.570 +/- 0.0103

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.01	1.40E+00 +/- 2.31E-01	1.99E+00	6.10E-09 +/- 3.68E-08
2	60.09	2.98E+01 +/- 8.72E-01	1.60E+00	1.63E-05 +/- 2.56E-05
3	67.50	1.00E+00 +/- 5.74E-01	1.57E+00	3.80E-05 +/- 4.29E-05
4	95.59	2.43E+00 +/- 8.54E-01	1.50E+00	2.08E-04 +/- 6.09E-05
5	99.38	1.77E+00 +/- 1.04E+00	1.50E+00	2.36E-04 +/- 5.57E-05
6	129.29	9.30E-01 +/- 5.70E-01	1.46E+00	4.21E-04 +/- 2.66E-05
7	208.66	1.12E+00 +/- 3.96E-01	1.34E+00	5.11E-04 +/- 5.15E-05
8	375.93	4.72E-01 +/- 1.50E-01	1.24E+00	3.18E-04 +/- 1.78E-05
9	400.66	1.69E-01 +/- 1.25E-01	1.23E+00	2.98E-04 +/- 1.82E-05
10	413.70	6.34E-01 +/- 1.06E-01	1.23E+00	2.88E-04 +/- 1.83E-05
11	778.90	4.42E-02 +/- 1.98E-02	1.16E+00	1.62E-04 +/- 8.21E-06
12	867.39	6.18E-02 +/- 3.21E-02	1.15E+00	1.49E-04 +/- 7.00E-06
13	1112.12	3.53E-02 +/- 1.77E-02	1.13E+00	1.25E-04 +/- 5.44E-06
14	1174.27	8.74E-02 +/- 3.12E-02	1.13E+00	1.21E-04 +/- 5.16E-06
15	2236.00	1.00E+02 +/- 1.51E+00	1.09E+00	6.12E-05 +/- 3.31E-05

Segment: 10 Detector: DET01 (# 1) Position: 10

Elapsed Live Time: 113.27 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.301 +/- 0.0119
SE-75	264.65	0.000 +/- 0.0000	0.474 +/- 0.0042
SE-75	279.53	0.000 +/- 0.0000	0.484 +/- 0.0065
SE-75	400.65	0.000 +/- 0.0000	0.535 +/- 0.0099

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.70	5.45E-01 +/- 1.67E-01	2.16E+00	1.59E-05 +/- 1.60E-05
2	49.37	2.06E+00 +/- 4.94E-01	1.77E+00	8.08E-05 +/- 4.15E-05
3	60.02	1.21E+01 +/- 6.10E-01	1.69E+00	1.36E-04 +/- 4.88E-05
4	67.90	1.33E+00 +/- 4.77E-01	1.65E+00	1.80E-04 +/- 4.97E-05
5	95.41	2.72E+00 +/- 8.45E-01	1.58E+00	3.14E-04 +/- 3.65E-05
6	129.29	7.80E-01 +/- 4.32E-01	1.53E+00	4.15E-04 +/- 2.22E-05
7	413.70	2.29E-01 +/- 6.29E-02	1.25E+00	3.15E-04 +/- 1.29E-05
8	867.39	5.23E-02 +/- 2.14E-02	1.17E+00	1.60E-04 +/- 7.45E-06
9	1085.91	1.74E-02 +/- 1.23E-02	1.15E+00	1.31E-04 +/- 4.92E-06
10	1112.12	2.51E-02 +/- 2.09E-02	1.15E+00	1.29E-04 +/- 4.78E-06
11	2236.00	1.00E+02 +/- 1.50E+00	1.10E+00	9.04E-05 +/- 2.29E-05

Segment: 11 Detector: DET01 (# 1) Position: 11

Elapsed Live Time: 113.56 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.235 +/- 0.0112
SE-75	264.65	0.000 +/- 0.0000	0.318 +/- 0.0034
SE-75	279.53	0.000 +/- 0.0000	0.320 +/- 0.0054
SE-75	400.65	0.000 +/- 0.0000	0.365 +/- 0.0079

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.22	1.20E+00 +/- 2.22E-01	2.43E+00	1.31E-03 +/- 8.40E-03
2	48.60	1.56E+00 +/- 4.21E-01	1.97E+00	6.21E-04 +/- 1.76E-03
3	60.22	5.75E+00 +/- 4.74E-01	1.86E+00	5.03E-04 +/- 8.44E-04
4	559.27	5.95E-02 +/- 2.73E-02	1.36E+00	2.49E-04 +/- 1.74E-05
5	1001.03	5.27E-02 +/- 2.15E-02	1.26E+00	1.39E-04 +/- 6.19E-06
6	1085.91	1.90E-02 +/- 1.79E-02	1.24E+00	1.27E-04 +/- 5.57E-06
7	2236.00	1.00E+02 +/- 1.50E+00	1.17E+00	5.79E-05 +/- 3.30E-05

Segment: 12 Detector: DET01 (# 1) Position: 12

Elapsed Live Time: 113.78 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.061 +/- 0.0080
SE-75	264.65	0.000 +/- 0.0000	0.137 +/- 0.0022
SE-75	279.53	0.000 +/- 0.0000	0.141 +/- 0.0036
SE-75	400.65	0.000 +/- 0.0000	0.177 +/- 0.0054

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.09	4.97E-01 +/- 1.33E-01	4.10E+00	2.45E-09 +/- 1.50E-08
2	49.52	1.56E+00 +/- 3.78E-01	3.14E+00	1.85E-06 +/- 4.79E-06
3	60.21	2.65E+00 +/- 3.92E-01	2.90E+00	1.31E-05 +/- 2.09E-05
4	547.83	4.57E-02 +/- 2.63E-02	1.67E+00	2.16E-04 +/- 1.54E-05
5	778.90	2.70E-02 +/- 1.98E-02	1.54E+00	1.60E-04 +/- 8.31E-06
6	1112.12	3.46E-02 +/- 1.73E-02	1.43E+00	1.27E-04 +/- 5.46E-06
7	2236.00	1.00E+02 +/- 1.50E+00	1.31E+00	6.48E-05 +/- 3.54E-05

Segment: 13 Detector: DET01 (# 1) Position: 13

Elapsed Live Time: 114.01 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.339 +/- 0.0116
SE-75	264.65	0.000 +/- 0.0000	0.418 +/- 0.0039
SE-75	279.53	0.000 +/- 0.0000	0.434 +/- 0.0061
SE-75	400.65	0.000 +/- 0.0000	0.483 +/- 0.0092

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.65	2.26E-01 +/- 1.03E-01	2.03E+00	1.42E-08 +/- 9.43E-08
2	60.06	8.75E-01 +/- 3.19E-01	1.61E+00	2.26E-05 +/- 3.85E-05
3	89.77	8.16E-01 +/- 5.01E-01	1.52E+00	1.83E-04 +/- 7.81E-05
4	1085.91	8.75E-03 +/- 8.75E-03	1.17E+00	1.32E-04 +/- 5.78E-06
5	1408.01	3.50E-02 +/- 1.75E-02	1.15E+00	1.05E-04 +/- 7.00E-06
6	2236.00	1.00E+02 +/- 1.50E+00	1.12E+00	5.36E-05 +/- 3.03E-05

Segment: 14 Detector: DET01 (# 1) Position: 14

Elapsed Live Time: 114.11 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.785 +/- 0.0181
SE-75	264.65	0.000 +/- 0.0000	0.867 +/- 0.0060
SE-75	279.53	0.000 +/- 0.0000	0.869 +/- 0.0092
SE-75	400.65	0.000 +/- 0.0000	0.895 +/- 0.0134

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.11	4.74E-01 +/- 1.37E-01	1.19E+00	3.54E-06 +/- 2.12E-05
2	49.56	2.04E+00 +/- 2.98E-01	1.13E+00	4.44E-05 +/- 1.12E-04
3	413.70	4.55E-02 +/- 3.64E-02	1.04E+00	2.98E-04 +/- 1.80E-05
4	2236.00	1.00E+02 +/- 1.49E+00	1.02E+00	7.64E-05 +/- 4.15E-05

Segment: 15 Detector: DET01 (# 1) Position: 15

Elapsed Live Time: 114.22 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.800 +/- 0.0185
SE-75	264.65	0.000 +/- 0.0000	0.897 +/- 0.0061
SE-75	279.53	0.000 +/- 0.0000	0.902 +/- 0.0092
SE-75	400.65	0.000 +/- 0.0000	0.920 +/- 0.0136

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.12	1.06E+00 +/- 2.29E-01	1.11E+00	1.22E-05 +/- 2.02E-05
2	722.01	3.92E-02 +/- 2.78E-02	1.02E+00	1.64E-04 +/- 9.17E-06
3	1408.01	8.72E-03 +/- 8.72E-03	1.02E+00	9.07E-05 +/- 6.42E-06
4	2236.00	1.00E+02 +/- 1.50E+00	1.01E+00	3.18E-05 +/- 1.80E-05

Segment: 16 Detector: DET01 (# 1) Position: 16

Elapsed Live Time: 114.20 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.770 +/- 0.0163
SE-75	264.65	0.000 +/- 0.0000	0.846 +/- 0.0059
SE-75	279.53	0.000 +/- 0.0000	0.860 +/- 0.0090
SE-75	400.65	0.000 +/- 0.0000	0.890 +/- 0.0134

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.91	1.41E-01 +/- 8.80E-02	1.21E+00	3.94E-06 +/- 4.75E-06
2	60.21	3.13E-01 +/- 2.23E-01	1.13E+00	5.63E-05 +/- 2.42E-05
3	264.66	1.22E-01 +/- 7.65E-02	1.06E+00	2.43E-04 +/- 1.53E-05
4	413.70	5.79E-02 +/- 3.84E-02	1.04E+00	1.79E-04 +/- 8.85E-06
5	778.90	5.18E-02 +/- 2.11E-02	1.03E+00	9.86E-05 +/- 6.05E-06
6	867.39	1.73E-02 +/- 1.22E-02	1.03E+00	8.96E-05 +/- 5.22E-06
7	1085.91	8.63E-03 +/- 8.63E-03	1.03E+00	7.51E-05 +/- 3.53E-06
8	2236.00	1.00E+02 +/- 1.49E+00	1.02E+00	6.28E-05 +/- 1.87E-05

Summed Spectrum

Peak Locate Report

Sample ID: S100-2658
Peak Locate Performed on: 4-07-08 11:03:12 AM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192
Peak Search Sensitivity: 5.00

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
1	64.70	0.1094	32.02	36.24
2	100.50	0.1582	49.91	13.71
3	120.94	0.0320	60.14	424.39
4	151.89	0.2907	75.61	5.90
5	199.35	0.0419	99.34	231.64
6	224.01	0.0607	111.67	116.15
7	233.10	0.0693	116.22	46.93
8	260.57	0.0422	129.95	227.83
9	290.14	0.1304	144.74	29.95
10	299.16	0.0865	149.25	62.44
11	344.78	0.1555	172.06	19.43
12	360.35	0.1676	179.84	15.14
13	380.51	0.1472	189.92	18.17
14	393.30	0.1298	196.32	25.70
15	417.99	0.0436	208.66	220.17
16	477.76	0.2352	238.55	7.87
17	488.61	0.2049	243.97	9.60
18	512.76	0.1180	256.05	29.46
19	529.94	0.2067	264.69	10.39
20	537.06	0.1282	268.21	26.67
21	596.94	0.1455	298.14	21.21
22	625.71	0.1076	312.52	34.15
23	643.26	0.2048	321.66	11.96
24	648.95	0.1501	324.04	16.31
25	667.39	0.0598	333.40	106.98
26	673.86	0.0968	336.35	50.25
27	684.48	0.1416	342.11	24.99
28	692.01	0.0595	345.69	115.65
29	725.80	0.2169	362.57	8.41
30	738.50	0.0930	368.91	37.09
31	752.13	0.0448	375.73	193.36
32	762.09	0.0799	380.89	70.44
33	767.90	0.0883	383.47	59.09
34	787.83	0.0604	393.58	103.44
35	829.47	0.0443	414.40	175.90
36	847.23	0.0874	423.28	49.43

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
37	893.59	0.2285	446.46	6.93
38	905.01	0.0778	452.17	65.07
39	965.05	0.2431	482.19	7.05
40	1023.85	0.2450	511.59	5.37
41	1197.39	0.2717	598.36	5.12
42	1240.11	0.1544	619.72	15.10
43	1268.66	0.2505	634.00	5.56
44	1294.01	0.1648	646.67	14.05
45	1319.19	0.2515	659.60	8.06
46	1327.03	0.0936	663.19	40.98
47	1379.71	0.1797	689.52	10.88
48	1409.76	0.2523	704.55	5.66
49	1446.26	0.1113	722.79	28.07
50	1514.85	0.2216	757.09	7.03
51	1540.80	0.1837	770.07	11.00
52	2349.56	0.2431	1174.45	5.57
53	2667.96	0.2326	1333.65	5.55
54	2925.28	0.2292	1462.31	5.69
55	4473.41	0.0273	2236.37	396.18

Errors quoted at 1.000 sigma

Summed Spectrum

Peak Analysis Report

Sample ID: S100-2658
Peak Analysis Performed on: 4-07-08 11:03:12 AM
Peak Analysis From Channel: 40
Peak Analysis To Channel: 8192

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	1	60-	71	64.70	32.02	1.13E+04	217.44	1.31E+04
	2	93-	106	100.50	49.91	7.32E+03	445.58	6.74E+04
	3	114-	127	120.94	60.14	3.25E+05	716.46	6.88E+04
	4	145-	158	151.89	75.61	2.58E+03	420.85	6.25E+04
	5	194-	203	199.35	99.34	1.11E+05	778.26	2.20E+05
	6	217-	227	224.01	111.67	2.19E+04	545.93	1.13E+05
	7	227-	239	233.10	116.22	1.77E+04	692.74	1.64E+05
	8	256-	267	260.57	129.95	8.42E+04	504.31	6.62E+04
	9	283-	293	290.14	144.74	6.60E+02	337.34	4.69E+04
	10	297-	306	299.16	149.25	8.46E+03	325.20	4.22E+04
	11	338-	351	344.78	172.06	4.75E+03	374.53	4.91E+04
	12	355-	367	360.35	179.84	2.31E+03	341.26	4.34E+04
	13	375-	387	380.51	189.92	3.76E+03	333.79	4.09E+04
	14	387-	400	393.30	196.32	4.23E+03	345.62	4.18E+04
	15	413-	425	417.99	208.66	5.90E+04	452.59	5.31E+04
	16	475-	482	477.76	238.55	3.20E+02	168.27	1.39E+04
	17	482-	495	488.61	243.97	8.72E+02	257.90	2.38E+04
	18	508-	520	512.76	256.05	3.59E+03	231.89	1.90E+04
M	19	526-	544	530.05	264.69	1.02E+03	92.67	1.08E+04
m	20	526-	544	537.09	268.21	2.96E+03	157.51	1.03E+04
	21	591-	604	596.94	298.14	2.30E+03	212.23	1.55E+04
	22	622-	630	625.71	312.52	3.51E+03	153.17	9.30E+03
M	23	639-	656	643.99	321.66	2.35E+03	134.11	1.10E+04
m	24	639-	656	648.75	324.04	3.65E+03	156.61	1.35E+04
M	25	659-	681	667.47	333.40	2.60E+04	265.16	9.13E+03
m	26	659-	681	673.37	336.35	8.85E+03	139.42	1.07E+04
M	27	681-	699	684.89	342.11	2.67E+03	82.99	6.27E+03
m	28	681-	699	692.04	345.69	2.35E+04	256.93	5.60E+03
	29	720-	729	725.80	362.57	4.62E+02	118.67	6.03E+03
	30	730-	746	738.50	368.91	1.29E+03	254.98	1.93E+04
	31	746-	759	752.13	375.73	4.32E+04	361.59	2.88E+04
M	32	759-	775	762.44	380.89	1.03E+04	158.55	5.91E+03
m	33	759-	775	767.60	383.47	9.68E+03	146.46	4.87E+03
	34	780-	795	787.83	393.58	2.18E+04	191.63	4.99E+03
	35	821-	837	829.47	414.40	5.74E+04	262.79	3.73E+03
	36	843-	851	847.23	423.28	3.60E+03	92.39	2.29E+03
	37	889-	898	893.59	446.46	1.70E+02	53.52	1.19E+03

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	38	898-	912	905.01	452.17	6.79E+03	109.71	1.83E+03
	39	961-	972	965.05	482.19	1.42E+02	45.27	7.57E+02
	40	1015-	1031	1023.85	511.59	3.91E+02	56.49	8.96E+02
	41	1189-	1205	1197.39	598.36	1.27E+02	37.59	4.09E+02
	42	1233-	1248	1240.11	619.72	6.74E+02	41.33	3.44E+02
	43	1265-	1273	1268.66	634.00	5.33E+01	23.45	2.31E+02
	44	1290-	1299	1294.01	646.67	3.11E+02	32.19	3.19E+02
M	45	1315-	1335	1319.87	659.60	1.98E+02	20.18	3.35E+02
m	46	1315-	1335	1327.04	663.19	3.00E+03	86.59	2.43E+02
	47	1371-	1384	1379.71	689.52	3.14E+02	28.28	1.77E+02
	48	1405-	1414	1409.76	704.55	8.82E+01	20.09	1.40E+02
	49	1440-	1454	1446.26	722.79	1.44E+03	46.36	2.49E+02
	50	1506-	1518	1514.85	757.09	1.14E+02	20.98	1.23E+02
	51	1532-	1549	1540.80	770.07	3.84E+02	29.65	1.52E+02
	52	2346-	2358	2349.56	1174.45	5.67E+01	11.70	2.93E+01
	53	2658-	2677	2667.96	1333.65	6.42E+01	16.76	6.08E+01
	54	2920-	2934	2925.28	1462.31	7.15E+01	10.93	1.65E+01
	55	4463-	4483	4473.41	2236.37	1.73E+05	417.43	2.77E+02

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Summed Spectrum

Nuclide Identification Report

Sample ID: S100-2658
Nuclide Library Used: C:\WAS\NLIB\LLNL.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (uCi/)	Activity Uncertainty
Pulser	0.990	2236.00*	100.00	7.332E+02	2.002E+02
Np-237	0.740	300.10	6.63		
		311.90*	38.60	8.235E+00	3.682E-01
Pu-239	0.966	413.70*	0.00	4.314E+06	8.568E+04
Pu-239A	0.970	129.29*	0.01	1.230E+06	3.462E+04
Am-241	0.959	662.42*	0.00	1.243E+06	3.844E+04
Am-241D	0.957	722.01*	0.00	1.312E+06	4.459E+04
Pu-241	0.968	148.57*	0.00	3.720E+06	1.677E+05

* = Energy line found in the spectrum.
Energy Tolerance : 1.500 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 4-07-08 11:03:12 AM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192

	Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
	1	32.02	1.0490E+02	1.94
	2	49.91	6.7872E+01	6.09
	3	60.14	3.0118E+03	0.34
	4	75.61	2.3932E+01	16.30
	5	99.34	1.0288E+03	0.75
	6	111.67	2.0300E+02	2.51
	7	116.22	1.6413E+02	3.92
	9	144.74	6.1172E+00	51.12
	11	172.06	4.4057E+01	7.88
	12	179.84	2.1376E+01	14.80
	13	189.92	3.4855E+01	8.88
	14	196.32	3.9174E+01	8.18
	15	208.66	5.4722E+02	0.81
	16	238.55	2.9640E+00	52.63
	17	243.97	8.0792E+00	29.59
	18	256.05	3.3280E+01	6.46
M	19	264.69	9.4598E+00	9.08
m	20	268.21	2.7463E+01	5.32
	21	298.14	2.1278E+01	9.25
M	23	321.66	2.1775E+01	5.72
m	24	324.04	3.3816E+01	4.30
M	25	333.40	2.4079E+02	1.05
m	26	336.35	8.2031E+01	1.60
M	27	342.11	2.4734E+01	3.12
m	28	345.69	2.1776E+02	1.12
	29	362.57	4.2804E+00	25.70
	30	368.91	1.1928E+01	19.82
	31	375.73	4.0068E+02	0.88
M	32	380.89	9.5658E+01	1.56
m	33	383.47	8.9769E+01	1.53
	34	393.58	2.0177E+02	0.92
	36	423.28	3.3355E+01	2.58
	37	446.46	1.5774E+00	31.45
	38	452.17	6.2962E+01	1.64
	39	482.19	1.3191E+00	31.81
	40	511.59	3.6257E+00	14.44
	41	598.36	1.1739E+00	29.68
	42	619.72	6.2490E+00	6.14
	43	634.00	4.9398E-01	44.01
	44	646.67	2.8849E+00	10.35
M	45	659.60	1.8317E+00	10.22
	47	689.52	2.9102E+00	9.01
	48	704.55	8.1752E-01	22.78
	50	757.09	1.0543E+00	18.45
	51	770.07	3.5569E+00	7.73
	52	1174.45	5.2588E-01	20.63
	53	1333.65	5.9520E-01	26.11
	54	1462.31	6.6269E-01	15.30

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Combined Segment NID

NID Results Combiner Mode: Sum Activities

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		8.13E+02	+/-	1.20E+02	3.66E-02	+/-	5.40E-03
SE-75	<	5.61E-01	+/-	3.78E-02	< 2.52E-05	+/-	1.70E-06
EU-152x	<	2.48E-01	+/-	1.87E-02	< 1.12E-05	+/-	8.41E-07
U-233	<	3.07E+04	+/-	2.48E+03	< 1.39E+00	+/-	1.12E-01
U-235	<	7.22E-01	+/-	9.13E-02	< 3.25E-05	+/-	4.11E-06
Np-237		8.47E+00	+/-	5.38E-01	3.81E-04	+/-	2.42E-05
Pu-238	<	5.18E+04	+/-	5.90E+03	< 2.33E+00	+/-	2.66E-01
U-238		4.70E+00	+/-	1.62E+00	2.12E-04	+/-	7.30E-05
Pu-239		5.29E+06	+/-	1.80E+05	2.38E+02	+/-	8.10E+00
Pu-239A		3.90E+06	+/-	1.46E+05	1.76E+02	+/-	6.56E+00
Am-241		1.47E+06	+/-	6.08E+04	6.62E+01	+/-	2.74E+00
Am-241D		1.55E+06	+/-	6.34E+04	6.98E+01	+/-	2.85E+00
Pu-241		1.09E+07	+/-	6.86E+05	4.90E+02	+/-	3.09E+01

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
Np-237	1.20E-02	+/-	7.63E-04
U-238	1.40E+01	+/-	4.83E+00
Pu-239	8.52E+01	+/-	2.90E+00
Pu-239A	6.28E+01	+/-	2.35E+00
Am-241	4.29E-01	+/-	1.78E-02
Pu-241	1.05E-01	+/-	6.63E-03

Summed Spectrum

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		7.33E+02	+/-	2.00E+02	3.30E-02	+/-	9.02E-03
SE-75	<	1.21E+00	+/-	1.35E-02	< 5.44E-05	+/-	6.06E-07
EU-152x	<	5.50E-01	+/-	1.15E-02	< 2.48E-05	+/-	5.19E-07
U-233	<	7.02E+04	+/-	1.77E+03	< 3.16E+00	+/-	7.99E-02
U-235	<	1.67E+00	+/-	4.33E-02	< 7.51E-05	+/-	1.95E-06
Np-237		8.23E+00	+/-	3.68E-01	3.71E-04	+/-	1.66E-05
Pu-238	<	1.22E+05	+/-	2.88E+03	< 5.52E+00	+/-	1.30E-01
U-238	<	1.45E+01	+/-	2.38E-01	< 6.52E-04	+/-	1.07E-05
Pu-239		4.31E+06	+/-	8.57E+04	1.94E+02	+/-	3.86E+00
Pu-239A		1.23E+06	+/-	3.46E+04	5.54E+01	+/-	1.56E+00
Am-241		1.24E+06	+/-	3.84E+04	5.60E+01	+/-	1.73E+00
Am-241D		1.31E+06	+/-	4.46E+04	5.91E+01	+/-	2.01E+00
Pu-241		3.72E+06	+/-	1.68E+05	1.68E+02	+/-	7.55E+00

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
Np-237	1.17E-02	+/-	5.23E-04
Pu-239	6.95E+01	+/-	1.38E+00
Pu-239A	1.98E+01	+/-	5.57E-01
Am-241	3.63E-01	+/-	1.12E-02
Pu-241	3.60E-02	+/-	1.62E-03

Final Non-Uniformity Results

Source Longitudinal Ratio: 0.940 +/- 11.0052
Matrix Longitudinal Ratio: 0.718 +/- 0.0344

Source Vertical Ratio: 0.890 +/- 0.4698
Matrix Vertical Ratio: 0.850 +/- 0.0150

NUDS could not find the transmission peak in one radial segment.

Radioassay Data Sheet — Thu May 1 09:20:49 2008
Procedure ID & Rev: WCP-55 03/07/2002 — Software Version: GWAS v2.3bGEN

Drum ID	: LL85234288	Gross Weight (kg)	: 59.6
Sequence Number	: 2659	Fill Height (%)	: 100.0
Assay Date	: 04/07/08 11:38:48	Density (g/cc)	: 0.17
		Net Weight (kg)	: 35.80
Batch Number	:	Waste Matrix Code	:
Site ID	:	TRUCON	:

	Errors at 1.00 Sigma		
TRU Alpha Activity Concentration:	5.79e-05	+/- 5.89e-06	Ci/g
Total Pu-239 Equiv Activity:	2.04e+00	+/- 2.06e-01	Ci
Total Pu-239 Fissile Gram Equiv:	9.43e+00	+/- 1.71e+00	g
Decay Heat:	6.83e-02	+/- 6.99e-03	W
Total Pu Mass:	9.95e+00	+/- 1.71e+00	g
TMU:	18.43%		
Waste Classification:	TRU		

Isotopics Data

Measured Isotope	MGA Report Weight %	MGA Report % Err (1.00 Sigma)
Pu-238	3.34e-01	2.50e+00
Pu-239	9.32e+01	2.92e-01
Pu-240	6.32e+00	4.22e+00
Pu-241	9.30e-02	6.18e+00
Pu-242	9.62e-02	1.00e+01
Am-241	3.32e+00	2.01e+00
Am-243	0.00e+00	0.00e+00
Np-237	0.00e+00	0.00e+00
U-235	1.16e+00	3.48e+01

Activity Errors

Isotope	Isotope Mass (g)	1.00 Sigma Error/Isotope Mass (g)	Alpha Activity/ Isotope (Ci)	1.00 Sigma Error/Isotope (Ci)	MDA (g)
Pu-238	3.32e-02	6.18e-03	5.69e-01	1.06e-01	1.81e-03
Pu-239	9.27e+00	1.71e+00	5.75e-01	1.06e-01	1.45e-01
Pu-240	6.29e-01	1.19e-01	1.43e-01	2.70e-02	0.00e+00
Pu-241	9.25e-03	1.80e-03	9.57e-01	1.86e-01	2.55e-03
Pu-242	9.57e-03	2.01e-03	3.76e-05	7.88e-06	0.00e+00
Am-241	2.29e-01	4.26e-02	7.85e-01	1.46e-01	7.22e-03
Am-243	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
Np-237	1.68e-03	3.99e-04	1.19e-06	2.81e-07	4.93e-04
U-235	1.15e-01	4.54e-02	2.49e-07	9.81e-08	1.13e-01
U-238	2.41e+01	7.05e+00	8.10e-06	2.37e-06	1.67e+01
*U-233	<LLD	0.00e+00	0.00e+00	0.00e+00	1.16e+00
CS-137	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
U-234	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
SR-90	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00

* = Activity/Mass below detectable limit.

Operator Signature — Date

Robert J. Hamlett — 5-1-08

Reviewer Signature — Date

AUTOMATED INDEPENDENT TECHNICAL REVIEW BASED ON WCP-55 03/07/2002

Software Version: GWAS v2.3bGEN
Counter Number: SGS
Data Review for Container: LL85234288
Item Description Code: \Count Type: DEBRIS
Sequence Number: 2659
Assayed on: 04/07/08 11:38:48
Report Generated: 05/01/08 09:20:34
AITR Version 1.4

Section 1 MGA Analysis Review Using MGA Isotopics

Pu-240 Wt Pct <6.32> +/- 2 Sigma error <0.53>
is within limits
Pu-240 Wt Pct error <4.22> is within limits
Pu-238 Wt Pct error <2.50> is within limits
REVIEW QFIT <4.02> > <1.20> Review MGA Results
REVIEW MGAERR13: Efficiency curvature boundary reached

OK
OK

Section 2 - CONTAINER DENSITY REVIEW

Container density <0.172> g/cc is within UPPER and LOWER limits

Section 3 - SELF-ABSORPTION REVIEW

Pu-239/Pu-239a ratio <1.37e+00> is within limits

Section 4 - PULSER REVIEW

DEAD TIME percentage <1.31> is acceptable in Segment 1
Pulser value <0.99> is within range in Segment 1
DEAD TIME percentage <1.72> is acceptable in Segment 2
Pulser value <1.00> is within range in Segment 2
DEAD TIME percentage <2.21> is acceptable in Segment 3
Pulser value <0.99> is within range in Segment 3
DEAD TIME percentage <3.90> is acceptable in Segment 4
Pulser value <1.00> is within range in Segment 4
DEAD TIME percentage <14.10> is acceptable in Segment 5
Pulser value <1.03> is within range in Segment 5
DEAD TIME percentage <14.70> is acceptable in Segment 6
Pulser value <1.04> is within range in Segment 6
DEAD TIME percentage <6.71> is acceptable in Segment 7
Pulser value <1.00> is within range in Segment 7
DEAD TIME percentage <4.04> is acceptable in Segment 8
Pulser value <1.00> is within range in Segment 8
DEAD TIME percentage <2.43> is acceptable in Segment 9
Pulser value <0.99> is within range in Segment 9
DEAD TIME percentage <1.48> is acceptable in Segment 10
Pulser value <0.99> is within range in Segment 10
DEAD TIME percentage <1.16> is acceptable in Segment 11
Pulser value <0.99> is within range in Segment 11
DEAD TIME percentage <0.91> is acceptable in Segment 12
Pulser value <0.99> is within range in Segment 12
DEAD TIME percentage <0.75> is acceptable in Segment 13
Pulser value <0.98> is within range in Segment 13
DEAD TIME percentage <0.67> is acceptable in Segment 14
Pulser value <0.98> is within range in Segment 14
DEAD TIME percentage <0.60> is acceptable in Segment 15
Pulser value <0.99> is within range in Segment 15
DEAD TIME percentage <0.59> is acceptable in Segment 16
Pulser value <0.98> is within range in Segment 16

Section 5 - TRANSMISSION REVIEW

Transmission results are acceptable in Segment 1
Transmission results are acceptable in Segment 2
Transmission results are acceptable in Segment 3
Transmission results are acceptable in Segment 4
Transmission results are acceptable in Segment 5
Transmission results are acceptable in Segment 6

Transmission results are acceptable in Segment 7
Transmission results are acceptable in Segment 8
Transmission results are acceptable in Segment 9
Transmission results are acceptable in Segment 10
Transmission results are acceptable in Segment 11
Transmission results are acceptable in Segment 12
Transmission results are acceptable in Segment 13
Transmission results are acceptable in Segment 14
Transmission results are acceptable in Segment 15
Transmission results are acceptable in Segment 16

Section 6 - REDUCED CHI SQUARED FIT REVIEW

All energy peaks within <3.00e+00> RCHISQ limit

Section 7 - FGE MASS REVIEW

FGE Mass <11.14> is within limits

Section 8 - PERCENT FULL REVIEW

Percent Full <100.0> is above lower limit <30.0>

Section 9 - IDC COUNT TYPE REVIEW

REVIEW IDC is not available

Section 10 - AM-241 & NP-237 INTERFERENCE REVIEW

REVIEW Am-241 ratio <40.40> is below lower limit <200.00> OK
Np-237 ratio <5506.06> is above lower limit <125.00>

Section 11 - PU-239 CALIBRATION RANGE REVIEW

Pu-239 <9.27> is within limits

Section 12 - CS-137 INTERFERENCE REVIEW

Am-241D > Am-241A: Calculation not performed OK Checked.

Independent Reviewer: Robert J. Haslett Jr. Date: 5-1-08

INDEPENDENT TECHNICAL REVIEW COMMENT SHEET

Counter Number: SGS
Data Review for Container: LL85234288
Item Description Code:
Sequence Number: 2659
Assayed on: 04/07/08 11:38:48
AITR Version 1.4

Comments	Disposition
SECTION 1 - MGA	
QFIT is greater than upper limit.	OK
MGAERR13	OK
SECTION 9 - IDC COUNT TYPE	
IDC is not available.	N/A
SECTION 10 - AM-241 & NP-237 INTERFERENCE TEST	
Possible Am-241 interference with 129 KeV peak.	OK. Checked.

Technical Reviewer: Robert J. Hawkins Date: 5-1-08

****
***** M G A R E P O R T *****
****

Report generated on: 5-01-08 9:18:53 AM

MGA version: MGA V9.5 CI

Spectrum ID: 11202659.CNF Sens : 30.0% LT: 54.2 Mins DT: 2.99
Measurement date: 4-07-08 Declared date: 4-07-08

Sample ID: LL85234288 Detector: Total counts: 3.129E+06

Pu g/cm2 = 0.0800 Cd g/cm2 = 2.0000 FWHM at 122 keV = 611 eV
QFIT = 4.02 FWHM at 208 keV = 779 eV
NQFIT = 1.22

Isotope	Relative to Pu-239	%* Err	% Err	Relative to Pu-241	%* Err	Isotope analysis at Meas. date % weight	Meas. date %Err	Decl. date % weight	Decl. date %Err
Pu-238	0.003585	2.6	1.7	3.5915	5.7	0.33394	2.50	0.33394	2.50
Pu-239	1.000000	0.0	2.1	1001.917	6.2	93.15881	0.29	93.15881	0.29
Pu-240	0.067821	4.5	3.9	67.9507	6.9	6.31809	4.22	6.31809	4.22
Pu-241	0.000998	6.2	5.7	1.0000	0.0	0.09298	6.18	0.09298	6.18
Pu-242	(New alg.)			1.0344	(10)	0.09618	(10)	0.09618	(10)
Am-241	0.035617	2.1	0.5	35.6853	5.7	3.31804	2.01	3.31804	2.01
U-235	0.012445	34.7	34.8			1.15936	34.75	1.15936	34.75

Pu-240 effective (meas. date) = 7.321 +/- 4.17%
U-237 separated more than 10 days ago
Am-241 separated about 74.195 +/- 0.257 years ago
Am/Pu-241 weight ratio =35.68532 +/- 5.71%

Messages :

Lead x-rays detected.
Efficiency curvature boundary reached.
Pu-241/Pu-239 efficiency changed in MGACAL by 2%.
17 MGA parameter(s) defaulted, starting from parameter 8.

Notes : * = Error in ratio
1.000 sigma errors

Gamma Waste Assay

Sample Information

File Name: C:\WAS\DATA\2700\11102659.S11
Sample ID: LL85234288 Count Sequence Number: 2659
Assay Start: 4-07-08 11:38:50 AM
Description 1:
Description 2:
Location:
Comment:
Waste Type:
Weight: Gross: 59600.0 g Net: 35800.0 g
Density: 0.172 g /ml

Container Type: 55 Gal Galv 23.8
Container: Volume: 208000. ml Full: 100.0 %

System Configuration

Counter ID Number: SGS
Arrangement Description: SGS
Segments: Number: 16 Offset: 0
Scanning Platform: Start: 934 mm Delta: -51 mm
Count Type: 55 Gal Galv 23.8
Collimator/Geometry Setting: 0
Transmission Mode: Two pass
Transmission Source: 0

Errors quoted at 1.000 sigma
Reference Source Date: Reference Source Rate: 1.00E+02 cps
Geometric Correction Factor(SWCONTGCF): 0.760
Date of efficiency calibration approval: 8-27-2003 2:05:34 PM
Mu Factors response file: Lucite response
Transmission Calib. Time: 12-10-2007 3:51:07 PM 28849

Reviewed by: Robert J Haslett Jr Date: 5-1-08

Segment Results

Segment: 1 Detector: DET01 (# 1) Position: 1

Elapsed Live Time: 113.49 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.178 +/- 0.0080
SE-75	264.65	0.000 +/- 0.0000	0.270 +/- 0.0046
SE-75	279.53	0.000 +/- 0.0000	0.268 +/- 0.0056
SE-75	400.65	0.000 +/- 0.0000	0.310 +/- 0.0081

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.06	4.79E-01 +/- 1.30E-01	2.78E+00	4.72E-10 +/- 3.35E-09
	2	49.26	1.37E+01 +/- 9.94E-01	2.19E+00	6.92E-07 +/- 2.09E-06
	3	60.17	1.18E+02 +/- 1.90E+00	2.05E+00	6.34E-06 +/- 1.17E-05
	4	99.47	1.68E+00 +/- 7.21E-01	1.87E+00	1.52E-04 +/- 4.17E-05
	5	103.78	3.07E+00 +/- 4.52E-01	1.86E+00	1.76E-04 +/- 3.70E-05
	6	111.73	8.72E-01 +/- 4.17E-01	1.84E+00	2.19E-04 +/- 2.67E-05
M	7	125.96	1.08E+00 +/- 1.64E-01	1.81E+00	2.87E-04 +/- 1.88E-05
m	8	130.02	6.17E+00 +/- 4.20E-01	1.81E+00	3.04E-04 +/- 2.20E-05
	9	152.68	8.12E-01 +/- 2.35E-01	1.76E+00	3.67E-04 +/- 4.47E-05
	10	208.66	1.59E+00 +/- 2.56E-01	1.66E+00	3.80E-04 +/- 4.53E-05
	11	311.90	2.90E-01 +/- 1.07E-01	1.56E+00	2.76E-04 +/- 1.41E-05
M	12	333.52	7.36E-01 +/- 1.30E-01	1.55E+00	2.57E-04 +/- 1.33E-05
m	13	336.40	3.79E-01 +/- 8.44E-02	1.55E+00	2.54E-04 +/- 1.33E-05
	14	345.71	4.67E-01 +/- 1.13E-01	1.54E+00	2.47E-04 +/- 1.34E-05
	15	375.86	9.56E-01 +/- 1.54E-01	1.52E+00	2.25E-04 +/- 1.40E-05
M	16	380.88	1.55E-01 +/- 7.63E-02	1.52E+00	2.22E-04 +/- 1.40E-05
m	17	383.96	1.71E-01 +/- 7.30E-02	1.52E+00	2.20E-04 +/- 1.41E-05
	18	393.49	6.09E-01 +/- 9.22E-02	1.51E+00	2.14E-04 +/- 1.43E-05
	19	413.70	1.28E+00 +/- 1.27E-01	1.50E+00	2.03E-04 +/- 1.44E-05
	20	423.12	1.30E-01 +/- 7.20E-02	1.50E+00	1.98E-04 +/- 1.45E-05
	21	452.21	2.00E-01 +/- 5.20E-02	1.48E+00	1.84E-04 +/- 1.43E-05
	22	662.42	1.33E-01 +/- 4.24E-02	1.39E+00	1.27E-04 +/- 8.85E-06
	23	722.01	4.82E-02 +/- 4.23E-02	1.37E+00	1.18E-04 +/- 7.51E-06
	24	964.13	4.35E-02 +/- 1.95E-02	1.31E+00	9.44E-05 +/- 5.09E-06
	25	2236.00	1.00E+02 +/- 1.50E+00	1.20E+00	3.40E-05 +/- 2.15E-05

Segment: 2 Detector: DET01 (# 1) Position: 2

Elapsed Live Time: 113.02 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.085 +/- 0.0061
SE-75	264.65	0.000 +/- 0.0000	0.150 +/- 0.0029
SE-75	279.53	0.000 +/- 0.0000	0.158 +/- 0.0040
SE-75	400.65	0.000 +/- 0.0000	0.196 +/- 0.0061

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.02	1.23E+00 +/- 2.36E-01	3.77E+00	1.87E-05 +/- 1.16E-04
	2	49.37	1.49E+01 +/- 1.23E+00	2.83E+00	8.05E-05 +/- 2.12E-04
	3	60.17	1.72E+02 +/- 2.60E+00	2.63E+00	1.33E-04 +/- 2.14E-04
	4	99.57	4.08E+00 +/- 8.46E-01	2.33E+00	3.10E-04 +/- 7.44E-05
	5	103.82	4.77E+00 +/- 5.53E-01	2.31E+00	3.24E-04 +/- 6.00E-05
	6	111.73	1.33E+00 +/- 4.74E-01	2.29E+00	3.48E-04 +/- 3.77E-05
	7	115.76	1.27E+00 +/- 5.57E-01	2.27E+00	3.59E-04 +/- 2.93E-05
M	8	125.97	1.89E+00 +/- 2.11E-01	2.24E+00	3.82E-04 +/- 2.26E-05
m	9	130.01	9.57E+00 +/- 5.16E-01	2.23E+00	3.89E-04 +/- 2.52E-05
	10	152.68	5.90E-01 +/- 2.71E-01	2.16E+00	4.18E-04 +/- 4.48E-05
	11	185.71	4.79E-01 +/- 2.28E-01	2.07E+00	4.30E-04 +/- 5.06E-05
	12	208.67	2.11E+00 +/- 3.20E-01	2.01E+00	4.25E-04 +/- 4.49E-05
	13	244.70	4.60E-01 +/- 2.26E-01	1.93E+00	4.07E-04 +/- 3.17E-05
	14	311.90	2.37E-01 +/- 1.36E-01	1.83E+00	3.58E-04 +/- 1.69E-05
M	15	333.48	7.24E-01 +/- 1.48E-01	1.80E+00	3.42E-04 +/- 1.64E-05
m	16	336.30	2.68E-01 +/- 8.64E-02	1.80E+00	3.40E-04 +/- 1.64E-05
	17	345.88	5.73E-01 +/- 1.41E-01	1.79E+00	3.34E-04 +/- 1.66E-05
	18	375.71	1.78E+00 +/- 2.18E-01	1.76E+00	3.13E-04 +/- 1.75E-05
M	19	381.05	2.90E-01 +/- 8.62E-02	1.76E+00	3.10E-04 +/- 1.77E-05
m	20	383.62	3.23E-01 +/- 8.98E-02	1.76E+00	3.08E-04 +/- 1.78E-05
	21	393.65	8.25E-01 +/- 1.19E-01	1.75E+00	3.01E-04 +/- 1.81E-05
	22	413.70	2.15E+00 +/- 1.49E-01	1.73E+00	2.89E-04 +/- 1.85E-05
	23	452.22	3.08E-01 +/- 6.78E-02	1.70E+00	2.67E-04 +/- 1.85E-05
	24	662.42	1.09E-01 +/- 4.55E-02	1.56E+00	1.86E-04 +/- 1.15E-05
	25	722.01	5.95E-02 +/- 4.12E-02	1.53E+00	1.71E-04 +/- 9.64E-06
	26	1001.03	6.17E-02 +/- 2.33E-02	1.43E+00	1.28E-04 +/- 5.83E-06
	27	2236.00	1.00E+02 +/- 1.51E+00	1.29E+00	9.73E-05 +/- 5.41E-05

Segment: 3 Detector: DET01 (# 1) Position: 3

Elapsed Live Time: 112.46 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.119 +/- 0.0075
SE-75	264.65	0.000 +/- 0.0000	0.215 +/- 0.0038
SE-75	279.53	0.000 +/- 0.0000	0.222 +/- 0.0050
SE-75	400.65	0.000 +/- 0.0000	0.272 +/- 0.0074

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.28	9.32E-01 +/- 2.72E-01	3.28E+00	3.62E-06 +/- 3.43E-06
	2	49.80	1.79E+01 +/- 1.52E+00	2.52E+00	3.81E-05 +/- 1.86E-05
	3	60.16	2.55E+02 +/- 3.61E+00	2.35E+00	8.07E-05 +/- 2.79E-05
	4	99.52	7.63E+00 +/- 9.25E-01	2.11E+00	2.97E-04 +/- 3.03E-05
	5	111.71	1.38E+00 +/- 5.24E-01	2.07E+00	3.54E-04 +/- 2.60E-05
M	6	125.91	3.14E+00 +/- 2.63E-01	2.04E+00	4.07E-04 +/- 2.27E-05
m	7	130.00	1.16E+01 +/- 5.68E-01	2.03E+00	4.20E-04 +/- 2.22E-05
	8	185.71	5.65E-01 +/- 2.84E-01	1.87E+00	4.95E-04 +/- 2.57E-05
	9	204.22	1.43E+00 +/- 2.91E-01	1.82E+00	4.93E-04 +/- 2.59E-05
	10	208.71	2.25E+00 +/- 3.27E-01	1.81E+00	4.92E-04 +/- 2.59E-05
	11	311.90	5.47E-01 +/- 1.57E-01	1.65E+00	4.04E-04 +/- 1.79E-05
M	12	333.47	1.36E+00 +/- 1.88E-01	1.63E+00	3.84E-04 +/- 1.63E-05
m	13	336.51	4.63E-01 +/- 9.68E-02	1.63E+00	3.81E-04 +/- 1.61E-05
M	14	342.19	1.72E-01 +/- 6.27E-02	1.62E+00	3.76E-04 +/- 1.58E-05
m	15	345.74	1.47E+00 +/- 1.93E-01	1.62E+00	3.72E-04 +/- 1.56E-05
	16	375.68	2.46E+00 +/- 2.67E-01	1.59E+00	3.46E-04 +/- 1.41E-05
M	17	381.00	4.63E-01 +/- 1.05E-01	1.59E+00	3.42E-04 +/- 1.38E-05
m	18	383.51	4.69E-01 +/- 1.03E-01	1.59E+00	3.40E-04 +/- 1.37E-05
	19	393.62	1.08E+00 +/- 1.55E-01	1.58E+00	3.31E-04 +/- 1.34E-05
	20	413.70	2.98E+00 +/- 1.95E-01	1.57E+00	3.16E-04 +/- 1.28E-05
	21	423.38	1.93E-01 +/- 7.96E-02	1.56E+00	3.09E-04 +/- 1.26E-05
	22	443.98	7.05E-02 +/- 4.60E-02	1.55E+00	2.95E-04 +/- 1.21E-05
	23	452.18	3.52E-01 +/- 8.55E-02	1.54E+00	2.89E-04 +/- 1.20E-05
	24	662.42	2.11E-01 +/- 6.93E-02	1.44E+00	1.95E-04 +/- 9.62E-06
	25	1001.03	1.76E-02 +/- 1.25E-02	1.34E+00	1.35E-04 +/- 5.37E-06
	26	1085.91	8.81E-03 +/- 8.81E-03	1.32E+00	1.28E-04 +/- 4.75E-06
	27	1408.01	2.64E-02 +/- 1.53E-02	1.28E+00	1.15E-04 +/- 7.14E-06
	28	2236.00	1.00E+02 +/- 1.51E+00	1.23E+00	1.32E-04 +/- 3.24E-05

Segment: 4 Detector: DET01 (# 1) Position: 4

Elapsed Live Time: 110.51 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.190 +/- 0.0101
SE-75	264.65	0.000 +/- 0.0000	0.290 +/- 0.0049
SE-75	279.53	0.000 +/- 0.0000	0.298 +/- 0.0062
SE-75	400.65	0.000 +/- 0.0000	0.349 +/- 0.0089

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.11	1.97E+00 +/- 3.60E-01	2.69E+00	1.21E-07 +/- 7.37E-07
	2	50.12	3.33E+01 +/- 2.21E+00	2.12E+00	1.07E-05 +/- 2.67E-05
	3	60.16	6.26E+02 +/- 8.05E+00	2.01E+00	3.62E-05 +/- 5.76E-05
	4	99.58	2.93E+01 +/- 1.25E+00	1.83E+00	2.65E-04 +/- 6.29E-05
	5	111.74	2.73E+00 +/- 6.77E-01	1.80E+00	3.35E-04 +/- 3.61E-05
M	6	123.76	2.03E+00 +/- 2.68E-01	1.78E+00	3.91E-04 +/- 2.30E-05
m	7	125.94	1.11E+01 +/- 4.91E-01	1.78E+00	3.99E-04 +/- 2.37E-05
m	8	130.01	1.83E+01 +/- 6.72E-01	1.77E+00	4.14E-04 +/- 2.68E-05
	9	144.72	1.37E+00 +/- 4.31E-01	1.74E+00	4.55E-04 +/- 4.30E-05
	10	152.68	7.24E-01 +/- 3.95E-01	1.72E+00	4.70E-04 +/- 4.99E-05
	11	170.37	1.23E+00 +/- 3.81E-01	1.69E+00	4.87E-04 +/- 5.74E-05
	12	196.51	9.06E-01 +/- 3.34E-01	1.64E+00	4.87E-04 +/- 5.48E-05
	13	204.21	6.87E-01 +/- 3.65E-01	1.63E+00	4.83E-04 +/- 5.22E-05
	14	208.70	5.26E+00 +/- 4.96E-01	1.62E+00	4.80E-04 +/- 5.04E-05
	15	279.54	4.04E-01 +/- 2.14E-01	1.53E+00	4.11E-04 +/- 2.31E-05
	16	311.90	9.17E-01 +/- 2.23E-01	1.51E+00	3.77E-04 +/- 1.75E-05
	17	323.51	1.16E+00 +/- 2.72E-01	1.50E+00	3.66E-04 +/- 1.68E-05
M	18	333.39	2.55E+00 +/- 2.42E-01	1.49E+00	3.57E-04 +/- 1.65E-05
m	19	336.29	2.16E+00 +/- 2.10E-01	1.49E+00	3.54E-04 +/- 1.65E-05
M	20	342.01	2.90E-01 +/- 8.05E-02	1.49E+00	3.49E-04 +/- 1.65E-05
m	21	345.72	2.26E+00 +/- 2.63E-01	1.48E+00	3.46E-04 +/- 1.65E-05
	22	369.20	6.17E-01 +/- 2.65E-01	1.47E+00	3.26E-04 +/- 1.70E-05
	23	375.76	4.50E+00 +/- 3.62E-01	1.47E+00	3.21E-04 +/- 1.71E-05
M	24	380.97	8.57E-01 +/- 1.44E-01	1.46E+00	3.17E-04 +/- 1.73E-05
m	25	383.61	1.07E+00 +/- 1.59E-01	1.46E+00	3.15E-04 +/- 1.73E-05
	26	393.54	1.81E+00 +/- 1.95E-01	1.46E+00	3.08E-04 +/- 1.75E-05
	27	413.70	5.87E+00 +/- 2.84E-01	1.45E+00	2.94E-04 +/- 1.78E-05
	28	423.47	1.93E-01 +/- 1.10E-01	1.44E+00	2.87E-04 +/- 1.79E-05
	29	452.36	7.75E-01 +/- 1.29E-01	1.43E+00	2.70E-04 +/- 1.78E-05
	30	619.63	2.15E-01 +/- 6.63E-02	1.36E+00	2.02E-04 +/- 1.27E-05
	31	662.42	8.59E-01 +/- 1.01E-01	1.35E+00	1.90E-04 +/- 1.13E-05
	32	722.01	6.39E-01 +/- 9.06E-02	1.33E+00	1.77E-04 +/- 9.59E-06

33	964.13	3.63E-02	+/-	1.81E-02	1.28E+00	1.40E-04	+/-	6.55E-06
34	1275.23	8.16E-02	+/-	2.72E-02	1.23E+00	1.14E-04	+/-	5.33E-06
35	2236.00	1.00E+02	+/-	1.53E+00	1.18E+00	7.00E-05	+/-	3.84E-05

Segment: 5 Detector: DET01 (# 1) Position: 5

Elapsed Live Time: 98.78 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.075 +/- 0.0085
SE-75	264.65	0.000 +/- 0.0000	0.137 +/- 0.0029
SE-75	279.53	0.000 +/- 0.0000	0.141 +/- 0.0043
SE-75	400.65	0.000 +/- 0.0000	0.176 +/- 0.0064

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)			Correction Factor	Original Efficiency		
	1	32.21	3.64E+00	+/-	4.40E-01	3.92E+00	2.94E-07	+/-	1.92E-06
	2	50.05	8.92E+01	+/-	3.51E+00	2.93E+00	1.59E-05	+/-	4.32E-05
	3	60.11	3.45E+03	+/-	4.41E+01	2.73E+00	4.77E-05	+/-	8.21E-05
	4	99.58	1.12E+02	+/-	2.68E+00	2.41E+00	2.79E-04	+/-	7.04E-05
	5	103.60	1.18E+01	+/-	3.45E+00	2.40E+00	3.01E-04	+/-	5.93E-05
M	6	111.58	1.94E+00	+/-	7.51E-01	2.37E+00	3.41E-04	+/-	3.85E-05
m	7	114.75	3.25E+00	+/-	1.01E+00	2.35E+00	3.55E-04	+/-	3.17E-05
M	8	123.61	1.36E+01	+/-	6.35E-01	2.33E+00	3.89E-04	+/-	2.28E-05
m	9	125.87	6.65E+01	+/-	1.60E+00	2.32E+00	3.97E-04	+/-	2.36E-05
m	10	129.89	2.24E+01	+/-	7.36E-01	2.31E+00	4.09E-04	+/-	2.71E-05
	11	148.57	1.02E+01	+/-	1.18E+00	2.25E+00	4.48E-04	+/-	4.84E-05
	12	170.16	3.18E+00	+/-	7.27E-01	2.18E+00	4.66E-04	+/-	5.90E-05
	13	204.19	8.06E-01	+/-	4.15E-01	2.08E+00	4.58E-04	+/-	5.30E-05
	14	208.64	2.15E+01	+/-	8.63E-01	2.07E+00	4.56E-04	+/-	5.12E-05
	15	222.05	9.98E-01	+/-	3.42E-01	2.04E+00	4.45E-04	+/-	4.53E-05
	16	268.14	1.27E+00	+/-	5.44E-01	1.94E+00	4.03E-04	+/-	2.62E-05
	17	300.10	4.44E-01	+/-	2.80E-01	1.90E+00	3.72E-04	+/-	1.87E-05
	18	323.15	3.28E+00	+/-	4.24E-01	1.88E+00	3.52E-04	+/-	1.68E-05
M	19	333.20	6.04E+00	+/-	3.53E-01	1.87E+00	3.44E-04	+/-	1.67E-05
m	20	336.10	1.09E+01	+/-	5.36E-01	1.86E+00	3.41E-04	+/-	1.67E-05
	21	345.67	1.87E+00	+/-	2.99E-01	1.85E+00	3.33E-04	+/-	1.69E-05
	22	369.18	4.50E+00	+/-	4.39E-01	1.83E+00	3.16E-04	+/-	1.77E-05
	23	375.88	5.79E+00	+/-	5.33E-01	1.82E+00	3.11E-04	+/-	1.79E-05
M	24	380.79	5.70E-01	+/-	1.80E-01	1.82E+00	3.07E-04	+/-	1.81E-05
m	25	383.78	1.13E+00	+/-	2.44E-01	1.82E+00	3.05E-04	+/-	1.82E-05
	26	393.55	2.72E+00	+/-	3.32E-01	1.81E+00	2.99E-04	+/-	1.85E-05
	27	413.70	6.47E+00	+/-	3.35E-01	1.79E+00	2.86E-04	+/-	1.90E-05

28	427.22	4.92E-01	+/-	1.74E-01	1.78E+00	2.78E-04	+/-	1.91E-05
29	452.18	6.90E-01	+/-	2.41E-01	1.75E+00	2.65E-04	+/-	1.91E-05
30	598.62	2.10E-01	+/-	8.83E-02	1.64E+00	2.07E-04	+/-	1.46E-05
31	619.65	9.45E-01	+/-	1.31E-01	1.63E+00	2.01E-04	+/-	1.37E-05
32	653.48	5.07E-01	+/-	1.07E-01	1.61E+00	1.92E-04	+/-	1.24E-05
33	662.42	5.26E+00	+/-	2.74E-01	1.60E+00	1.90E-04	+/-	1.21E-05
34	689.58	2.09E-01	+/-	8.58E-02	1.59E+00	1.83E-04	+/-	1.11E-05
35	722.01	2.48E+00	+/-	1.77E-01	1.57E+00	1.77E-04	+/-	1.01E-05
36	737.72	9.53E-02	+/-	5.62E-02	1.56E+00	1.73E-04	+/-	9.63E-06
37	771.73	1.21E-01	+/-	8.38E-02	1.55E+00	1.67E-04	+/-	8.78E-06
38	778.90	8.12E-02	+/-	5.60E-02	1.55E+00	1.66E-04	+/-	8.62E-06
39	1001.03	4.59E-02	+/-	3.14E-02	1.47E+00	1.35E-04	+/-	6.17E-06
40	1085.91	2.25E-02	+/-	2.06E-02	1.44E+00	1.26E-04	+/-	5.69E-06
41	1408.01	1.04E-02	+/-	1.04E-02	1.38E+00	1.00E-04	+/-	6.78E-06
42	2236.00	1.00E+02	+/-	1.64E+00	1.31E+00	5.76E-05	+/-	3.29E-05

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	2295.41	3.78E-01 +/- 1.46E-01	1.31E+00	5.53E-05 +/- 3.46E-05

Segment: 6 Detector: DET01 (# 1) Position: 6

Elapsed Live Time: 98.09 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.068 +/- 0.0107
SE-75	264.65	0.000 +/- 0.0000	0.130 +/- 0.0029
SE-75	279.53	0.000 +/- 0.0000	0.130 +/- 0.0043
SE-75	400.65	0.000 +/- 0.0000	0.165 +/- 0.0065

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.15	3.56E+00 +/- 4.72E-01	4.06E+00	4.89E-07 +/- 3.05E-06
2	50.07	2.08E+02 +/- 5.41E+00	3.01E+00	2.18E-05 +/- 5.62E-05
3	60.10	3.58E+03 +/- 4.61E+01	2.80E+00	6.05E-05 +/- 9.91E-05
4	82.78	2.69E+00 +/- 1.57E+00	2.57E+00	2.01E-04 +/- 1.18E-04
5	99.57	1.18E+02 +/- 2.80E+00	2.47E+00	3.07E-04 +/- 7.43E-05
6	103.59	1.00E+01 +/- 3.58E+00	2.45E+00	3.29E-04 +/- 6.22E-05
M 7	111.50	2.78E+00 +/- 8.82E-01	2.42E+00	3.68E-04 +/- 4.04E-05
m 8	114.67	5.12E+00 +/- 1.24E+00	2.41E+00	3.81E-04 +/- 3.33E-05
M 9	123.57	1.54E+01 +/- 7.02E-01	2.38E+00	4.14E-04 +/- 2.39E-05
m 10	125.87	7.13E+01 +/- 1.72E+00	2.38E+00	4.21E-04 +/- 2.46E-05
m 11	129.90	1.97E+01 +/- 7.16E-01	2.36E+00	4.33E-04 +/- 2.79E-05
M 12	147.11	1.04E+01 +/- 8.15E-01	2.30E+00	4.67E-04 +/- 4.71E-05
m 13	150.87	1.71E+00 +/- 3.85E-01	2.29E+00	4.72E-04 +/- 5.03E-05
m 14	153.27	2.96E+00 +/- 4.31E-01	2.28E+00	4.74E-04 +/- 5.20E-05
15	170.16	2.13E+00 +/- 7.95E-01	2.22E+00	4.84E-04 +/- 5.86E-05
16	204.19	1.03E+00 +/- 4.58E-01	2.12E+00	4.75E-04 +/- 5.27E-05
17	208.64	2.21E+01 +/- 8.78E-01	2.11E+00	4.72E-04 +/- 5.09E-05
18	222.04	1.80E+00 +/- 5.50E-01	2.07E+00	4.63E-04 +/- 4.52E-05
M 19	265.00	4.54E-01 +/- 1.67E-01	1.97E+00	4.24E-04 +/- 2.78E-05
m 20	268.09	8.51E-01 +/- 2.35E-01	1.97E+00	4.22E-04 +/- 2.68E-05
21	279.54	6.65E-01 +/- 4.04E-01	1.97E+00	4.11E-04 +/- 2.35E-05
22	311.90	5.16E-01 +/- 3.10E-01	1.93E+00	3.82E-04 +/- 1.81E-05
23	323.17	3.85E+00 +/- 4.44E-01	1.92E+00	3.73E-04 +/- 1.75E-05
M 24	333.14	6.17E+00 +/- 3.61E-01	1.91E+00	3.65E-04 +/- 1.73E-05

m	25	336.05	1.13E+01	+/- 5.49E-01	1.90E+00	3.63E-04	+/-	1.73E-05
	26	345.63	1.90E+00	+/- 3.24E-01	1.89E+00	3.55E-04	+/-	1.74E-05
	27	369.18	6.21E+00	+/- 4.55E-01	1.87E+00	3.38E-04	+/-	1.82E-05
	28	375.89	5.20E+00	+/- 5.20E-01	1.86E+00	3.33E-04	+/-	1.84E-05
	29	393.62	2.95E+00	+/- 3.18E-01	1.84E+00	3.22E-04	+/-	1.90E-05
	30	400.66	3.39E-01	+/- 1.97E-01	1.84E+00	3.17E-04	+/-	1.92E-05
	31	413.70	5.39E+00	+/- 3.56E-01	1.82E+00	3.09E-04	+/-	1.95E-05
	32	452.25	9.88E-01	+/- 2.45E-01	1.79E+00	2.88E-04	+/-	1.97E-05
	33	619.61	8.74E-01	+/- 1.59E-01	1.66E+00	2.22E-04	+/-	1.43E-05
	34	653.59	6.21E-01	+/- 1.32E-01	1.63E+00	2.13E-04	+/-	1.29E-05
	35	662.42	5.35E+00	+/- 2.69E-01	1.63E+00	2.10E-04	+/-	1.26E-05
	36	689.36	3.75E-01	+/- 9.67E-02	1.61E+00	2.03E-04	+/-	1.16E-05
	37	722.01	2.81E+00	+/- 1.93E-01	1.60E+00	1.95E-04	+/-	1.05E-05
	38	2236.00	1.00E+02	+/- 1.65E+00	1.32E+00	4.34E-05	+/-	2.42E-05
	39	2295.28	3.40E-01	+/- 1.18E-01	1.32E+00	4.07E-05	+/-	2.49E-05

Segment: 7 Detector: DET01 (# 1) Position: 7

Elapsed Live Time: 107.28 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.168 +/- 0.0095
SE-75	264.65	0.000 +/- 0.0000	0.245 +/- 0.0043
SE-75	279.53	0.000 +/- 0.0000	0.255 +/- 0.0058
SE-75	400.65	0.000 +/- 0.0000	0.300 +/- 0.0083

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)		Correction Factor	Original Efficiency		
	1	32.01	2.17E+00	+/- 3.34E-01	2.85E+00	4.85E-09	+/-	2.78E-08
	2	50.11	7.81E+01	+/- 3.23E+00	2.22E+00	2.92E-06	+/-	6.84E-06
	3	60.15	1.33E+03	+/- 1.66E+01	2.10E+00	1.60E-05	+/-	2.38E-05
	4	99.65	4.13E+01	+/- 1.70E+00	1.90E+00	2.45E-04	+/-	5.48E-05
	5	103.68	1.60E+01	+/- 1.92E+00	1.89E+00	2.76E-04	+/-	4.85E-05
	6	111.71	1.93E+00	+/- 9.01E-01	1.87E+00	3.35E-04	+/-	3.48E-05
	7	115.23	3.43E+00	+/- 9.44E-01	1.86E+00	3.59E-04	+/-	2.96E-05
M	8	123.71	4.28E+00	+/- 3.43E-01	1.85E+00	4.11E-04	+/-	2.39E-05
m	9	125.94	2.18E+01	+/- 7.11E-01	1.84E+00	4.24E-04	+/-	2.46E-05
m	10	129.95	2.52E+01	+/- 7.83E-01	1.84E+00	4.45E-04	+/-	2.77E-05
	11	144.53	2.43E+00	+/- 5.23E-01	1.81E+00	5.04E-04	+/-	4.45E-05
	12	152.68	4.58E+00	+/- 5.23E-01	1.79E+00	5.26E-04	+/-	5.21E-05
	13	170.30	1.90E+00	+/- 4.51E-01	1.76E+00	5.53E-04	+/-	6.06E-05
	14	204.21	2.85E+00	+/- 4.46E-01	1.71E+00	5.51E-04	+/-	5.50E-05
	15	208.69	7.29E+00	+/- 6.34E-01	1.70E+00	5.47E-04	+/-	5.32E-05

	16	256.08	3.06E-01	+/- 1.87E-01	1.64E+00	4.90E-04	+/-	3.18E-05
	17	268.17	5.21E-01	+/- 3.84E-01	1.62E+00	4.74E-04	+/-	2.74E-05
	18	300.10	5.15E-01	+/- 3.03E-01	1.59E+00	4.31E-04	+/-	1.99E-05
	19	311.90	6.24E-01	+/- 3.08E-01	1.58E+00	4.17E-04	+/-	1.86E-05
	20	323.34	9.86E-01	+/- 3.22E-01	1.58E+00	4.03E-04	+/-	1.79E-05
M	21	333.42	4.65E+00	+/- 3.18E-01	1.57E+00	3.91E-04	+/-	1.76E-05
m	22	336.21	4.49E+00	+/- 3.09E-01	1.57E+00	3.88E-04	+/-	1.76E-05
M	23	342.17	3.34E-01	+/- 1.11E-01	1.56E+00	3.82E-04	+/-	1.76E-05
m	24	345.74	2.78E+00	+/- 2.99E-01	1.56E+00	3.78E-04	+/-	1.76E-05
	25	369.30	1.91E+00	+/- 3.15E-01	1.55E+00	3.54E-04	+/-	1.81E-05
	26	375.72	5.55E+00	+/- 4.16E-01	1.54E+00	3.48E-04	+/-	1.82E-05
M	27	380.91	8.67E-01	+/- 1.64E-01	1.54E+00	3.44E-04	+/-	1.83E-05
m	28	383.54	1.00E+00	+/- 1.69E-01	1.54E+00	3.41E-04	+/-	1.84E-05
	29	393.53	2.56E+00	+/- 2.50E-01	1.53E+00	3.33E-04	+/-	1.86E-05
	30	413.70	7.29E+00	+/- 3.24E-01	1.52E+00	3.17E-04	+/-	1.88E-05
	31	423.44	3.14E-01	+/- 1.51E-01	1.51E+00	3.09E-04	+/-	1.88E-05
	32	452.09	8.78E-01	+/- 1.77E-01	1.50E+00	2.90E-04	+/-	1.86E-05
	33	512.10	3.39E-01	+/- 1.18E-01	1.46E+00	2.57E-04	+/-	1.71E-05
	34	619.72	2.75E-01	+/- 6.33E-02	1.42E+00	2.15E-04	+/-	1.32E-05
M	35	659.00	1.15E-01	+/- 3.89E-02	1.40E+00	2.04E-04	+/-	1.18E-05
m	36	663.20	1.77E+00	+/- 1.97E-01	1.40E+00	2.03E-04	+/-	1.17E-05
	37	689.98	1.50E-01	+/- 5.55E-02	1.39E+00	1.96E-04	+/-	1.09E-05
	38	722.01	9.18E-01	+/- 1.05E-01	1.38E+00	1.89E-04	+/-	9.99E-06
	39	756.77	7.59E-02	+/- 3.96E-02	1.37E+00	1.82E-04	+/-	9.17E-06
	40	767.76	8.61E-02	+/- 4.32E-02	1.37E+00	1.79E-04	+/-	8.94E-06
	41	1112.12	2.80E-02	+/- 2.89E-02	1.29E+00	1.32E-04	+/-	5.60E-06
	42	2236.00	1.00E+02	+/- 1.55E+00	1.21E+00	5.07E-05	+/-	2.69E-05

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	2295.36	1.49E-01 +/- 6.46E-02	1.21E+00	4.77E-05 +/- 2.77E-05

Segment: 8 Detector: DET01 (# 1) Position: 8

Elapsed Live Time: 110.35 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.143 +/- 0.0095
SE-75	264.65	0.000 +/- 0.0000	0.233 +/- 0.0041
SE-75	279.53	0.000 +/- 0.0000	0.249 +/- 0.0055
SE-75	400.65	0.000 +/- 0.0000	0.318 +/- 0.0084

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.97	2.65E+00 +/- 3.27E-01	3.07E+00	7.55E-06 +/- 7.36E-06
	2	50.02	2.67E+01 +/- 2.07E+00	2.36E+00	5.94E-05 +/- 2.93E-05
	3	60.16	5.43E+02 +/- 7.05E+00	2.22E+00	1.10E-04 +/- 3.84E-05
	4	99.96	4.72E+01 +/- 1.70E+00	2.00E+00	3.27E-04 +/- 3.28E-05
	5	111.73	2.92E+00 +/- 8.34E-01	1.97E+00	3.75E-04 +/- 2.72E-05
	6	115.97	3.98E+00 +/- 8.70E-01	1.96E+00	3.90E-04 +/- 2.56E-05
M	7	125.92	7.36E+00 +/- 3.91E-01	1.94E+00	4.19E-04 +/- 2.31E-05
m	8	130.01	3.02E+01 +/- 9.28E-01	1.93E+00	4.29E-04 +/- 2.26E-05
	9	152.68	1.01E+01 +/- 5.19E-01	1.87E+00	4.67E-04 +/- 2.32E-05
	10	161.57	9.69E-01 +/- 4.83E-01	1.85E+00	4.75E-04 +/- 2.41E-05
	11	172.10	1.03E+00 +/- 4.50E-01	1.83E+00	4.80E-04 +/- 2.51E-05
	12	180.07	8.39E-01 +/- 4.83E-01	1.81E+00	4.81E-04 +/- 2.57E-05
	13	204.23	1.08E+00 +/- 4.96E-01	1.76E+00	4.76E-04 +/- 2.61E-05
	14	208.71	4.12E+00 +/- 5.49E-01	1.75E+00	4.74E-04 +/- 2.60E-05
	15	256.36	6.79E-01 +/- 2.70E-01	1.67E+00	4.39E-04 +/- 2.28E-05
	16	268.26	9.04E-01 +/- 3.51E-01	1.65E+00	4.28E-04 +/- 2.17E-05
M	17	333.48	4.22E+00 +/- 3.22E-01	1.56E+00	3.69E-04 +/- 1.62E-05
m	18	336.45	1.71E+00 +/- 1.76E-01	1.56E+00	3.66E-04 +/- 1.60E-05
	19	345.79	1.12E+00 +/- 4.76E-01	1.55E+00	3.58E-04 +/- 1.54E-05
	20	368.97	1.25E+00 +/- 2.11E-01	1.53E+00	3.39E-04 +/- 1.41E-05
	21	375.77	6.81E+00 +/- 4.40E-01	1.52E+00	3.34E-04 +/- 1.38E-05
M	22	380.97	1.58E+00 +/- 1.91E-01	1.51E+00	3.30E-04 +/- 1.36E-05
m	23	383.47	1.41E+00 +/- 1.72E-01	1.51E+00	3.28E-04 +/- 1.35E-05
	24	393.64	3.59E+00 +/- 2.54E-01	1.50E+00	3.21E-04 +/- 1.31E-05

25	413.70	9.41E+00	+/- 3.37E-01	1.49E+00	3.06E-04	+/- 1.25E-05
26	423.22	6.49E-01	+/- 1.23E-01	1.48E+00	3.00E-04	+/- 1.22E-05
27	443.98	1.24E-01	+/- 9.04E-02	1.47E+00	2.87E-04	+/- 1.18E-05
28	452.28	9.46E-01	+/- 1.17E-01	1.47E+00	2.82E-04	+/- 1.16E-05
29	584.10	1.12E-01	+/- 5.40E-02	1.41E+00	2.19E-04	+/- 1.02E-05
30	619.40	1.33E-01	+/- 6.43E-02	1.39E+00	2.06E-04	+/- 9.86E-06
31	662.42	4.70E-01	+/- 8.23E-02	1.38E+00	1.93E-04	+/- 9.41E-06
32	722.01	3.36E-01	+/- 6.85E-02	1.36E+00	1.78E-04	+/- 8.71E-06
33	964.13	5.73E-02	+/- 3.46E-02	1.30E+00	1.39E-04	+/- 5.73E-06
34	1112.12	1.81E-02	+/- 1.28E-02	1.28E+00	1.26E-04	+/- 4.65E-06
35	2236.00	1.00E+02	+/- 1.53E+00	1.20E+00	1.19E-04	+/- 2.92E-05

Segment: 9 Detector: DET01 (# 1) Position: 9

Elapsed Live Time: 112.20 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.179 +/- 0.0088
SE-75	264.65	0.000 +/- 0.0000	0.282 +/- 0.0048
SE-75	279.53	0.000 +/- 0.0000	0.282 +/- 0.0060
SE-75	400.65	0.000 +/- 0.0000	0.319 +/- 0.0083

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.80	1.35E+00 +/- 2.64E-01	2.79E+00	5.41E-09 +/- 3.30E-08
	2	49.91	1.12E+01 +/- 1.27E+00	2.17E+00	3.00E-06 +/- 7.45E-06
	3	60.17	2.66E+02 +/- 3.72E+00	2.05E+00	1.65E-05 +/- 2.58E-05
	4	99.76	1.05E+01 +/- 1.23E+00	1.86E+00	2.38E-04 +/- 5.52E-05
	5	103.81	8.97E+00 +/- 8.09E-01	1.85E+00	2.68E-04 +/- 4.85E-05
	6	111.68	2.87E+00 +/- 5.81E-01	1.84E+00	3.22E-04 +/- 3.46E-05
M	7	126.00	3.77E+00 +/- 2.82E-01	1.81E+00	4.05E-04 +/- 2.41E-05
m	8	130.01	1.76E+01 +/- 6.99E-01	1.80E+00	4.24E-04 +/- 2.73E-05
	9	152.68	3.45E+00 +/- 3.60E-01	1.75E+00	4.97E-04 +/- 5.14E-05
	10	196.20	6.23E-01 +/- 2.90E-01	1.67E+00	5.20E-04 +/- 5.64E-05
	11	204.30	2.33E+00 +/- 3.21E-01	1.65E+00	5.14E-04 +/- 5.33E-05
	12	208.68	1.30E+00 +/- 4.62E-01	1.64E+00	5.11E-04 +/- 5.15E-05
	13	264.66	7.57E-01 +/- 2.57E-01	1.56E+00	4.42E-04 +/- 2.72E-05
	14	298.16	3.10E-01 +/- 2.14E-01	1.55E+00	3.99E-04 +/- 1.92E-05
	15	311.90	6.16E-01 +/- 2.26E-01	1.54E+00	3.83E-04 +/- 1.78E-05
M	16	333.53	2.46E+00 +/- 2.58E-01	1.53E+00	3.59E-04 +/- 1.71E-05
m	17	336.53	6.59E-01 +/- 1.19E-01	1.53E+00	3.56E-04 +/- 1.71E-05
M	18	342.22	2.30E-01 +/- 7.95E-02	1.52E+00	3.50E-04 +/- 1.71E-05
m	19	345.77	2.33E+00 +/- 2.54E-01	1.52E+00	3.46E-04 +/- 1.72E-05

20	368.81	1.05E+00	+/- 1.92E-01	1.51E+00	3.24E-04	+/- 1.77E-05
21	375.82	4.04E+00	+/- 3.42E-01	1.51E+00	3.18E-04	+/- 1.78E-05
M 22	380.81	8.51E-01	+/- 1.40E-01	1.51E+00	3.14E-04	+/- 1.79E-05
m 23	383.50	7.28E-01	+/- 1.21E-01	1.50E+00	3.12E-04	+/- 1.80E-05
24	393.58	2.00E+00	+/- 1.70E-01	1.50E+00	3.03E-04	+/- 1.81E-05
25	413.70	5.57E+00	+/- 2.53E-01	1.49E+00	2.88E-04	+/- 1.83E-05
26	423.33	3.35E-01	+/- 1.06E-01	1.48E+00	2.82E-04	+/- 1.83E-05
27	452.17	6.28E-01	+/- 1.17E-01	1.47E+00	2.63E-04	+/- 1.81E-05
28	662.42	5.08E-01	+/- 7.86E-02	1.38E+00	1.84E-04	+/- 1.12E-05
29	722.01	2.38E-01	+/- 5.67E-02	1.36E+00	1.72E-04	+/- 9.44E-06
30	778.90	2.82E-02	+/- 1.98E-02	1.34E+00	1.62E-04	+/- 8.21E-06
31	1085.91	2.43E-02	+/- 2.19E-02	1.28E+00	1.27E-04	+/- 5.58E-06
32	1112.12	3.91E-02	+/- 2.64E-02	1.28E+00	1.25E-04	+/- 5.44E-06
33	2236.00	1.00E+02	+/- 1.51E+00	1.20E+00	6.12E-05	+/- 3.31E-05

Segment: 10 Detector: DET01 (# 1) Position: 10

Elapsed Live Time: 113.30 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.287 +/- 0.0111
SE-75	264.65	0.000 +/- 0.0000	0.375 +/- 0.0060
SE-75	279.53	0.000 +/- 0.0000	0.382 +/- 0.0074
SE-75	400.65	0.000 +/- 0.0000	0.436 +/- 0.0102

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.93	8.59E-01 +/- 2.02E-01	2.20E+00	1.64E-05 +/- 1.63E-05
2	49.69	8.37E+00 +/- 1.12E+00	1.80E+00	8.24E-05 +/- 4.18E-05
3	60.17	1.08E+02 +/- 1.86E+00	1.72E+00	1.37E-04 +/- 4.88E-05
4	99.51	4.67E+00 +/- 8.04E-01	1.60E+00	3.30E-04 +/- 3.39E-05
5	103.92	2.19E+00 +/- 5.12E-01	1.59E+00	3.46E-04 +/- 3.13E-05
6	111.72	1.19E+00 +/- 4.76E-01	1.58E+00	3.72E-04 +/- 2.73E-05
M 7	125.96	1.71E+00 +/- 2.01E-01	1.56E+00	4.08E-04 +/- 2.27E-05
m 8	130.01	9.65E+00 +/- 5.15E-01	1.55E+00	4.16E-04 +/- 2.21E-05
M 9	162.44	3.19E-01 +/- 7.92E-02	1.51E+00	4.55E-04 +/- 2.34E-05
m 10	165.87	2.64E-01 +/- 7.28E-02	1.51E+00	4.56E-04 +/- 2.37E-05
11	204.29	3.76E-01 +/- 2.36E-01	1.47E+00	4.57E-04 +/- 2.52E-05
12	208.68	1.08E+00 +/- 3.26E-01	1.47E+00	4.56E-04 +/- 2.51E-05
13	264.66	2.27E-01 +/- 1.51E-01	1.42E+00	4.23E-04 +/- 2.15E-05
14	300.10	3.74E-01 +/- 1.56E-01	1.40E+00	3.96E-04 +/- 1.86E-05
15	333.59	1.56E+00 +/- 2.01E-01	1.38E+00	3.70E-04 +/- 1.62E-05
16	345.85	8.63E-01 +/- 1.60E-01	1.37E+00	3.61E-04 +/- 1.54E-05

17	368.95	2.32E-01 +/-	1.37E-01	1.36E+00	3.45E-04 +/-	1.43E-05
18	375.84	2.67E+00 +/-	1.91E-01	1.36E+00	3.40E-04 +/-	1.40E-05
19	393.65	1.09E+00 +/-	1.28E-01	1.35E+00	3.28E-04 +/-	1.34E-05
20	413.70	3.03E+00 +/-	1.89E-01	1.34E+00	3.15E-04 +/-	1.29E-05
21	423.21	1.50E-01 +/-	7.16E-02	1.34E+00	3.09E-04 +/-	1.27E-05
22	443.98	9.18E-02 +/-	5.24E-02	1.33E+00	2.97E-04 +/-	1.23E-05
23	452.01	3.13E-01 +/-	8.39E-02	1.33E+00	2.93E-04 +/-	1.22E-05
24	662.42	9.76E-02 +/-	4.48E-02	1.27E+00	2.06E-04 +/-	1.03E-05
25	722.01	5.26E-02 +/-	3.64E-02	1.25E+00	1.89E-04 +/-	9.55E-06
26	1001.03	3.50E-02 +/-	1.75E-02	1.21E+00	1.41E-04 +/-	5.67E-06
27	1085.91	3.28E-02 +/-	2.41E-02	1.20E+00	1.31E-04 +/-	4.92E-06
28	1112.12	3.50E-02 +/-	1.75E-02	1.20E+00	1.29E-04 +/-	4.78E-06
29	2236.00	1.00E+02 +/-	1.50E+00	1.14E+00	9.04E-05 +/-	2.29E-05

Segment: 11 Detector: DET01 (# 1) Position: 11

Elapsed Live Time: 113.67 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.325 +/- 0.0104
SE-75	264.65	0.000 +/- 0.0000	0.430 +/- 0.0067
SE-75	279.53	0.000 +/- 0.0000	0.426 +/- 0.0080
SE-75	400.65	0.000 +/- 0.0000	0.486 +/- 0.0110

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)		Correction Factor	Original Efficiency	
	1	31.77	4.45E-01 +/-	1.80E-01	2.07E+00	1.36E-03 +/-	8.92E-03
	2	49.80	7.25E+00 +/-	9.13E-01	1.71E+00	6.03E-04 +/-	1.62E-03
	3	60.17	5.28E+01 +/-	1.18E+00	1.64E+00	5.03E-04 +/-	8.47E-04
	4	99.40	3.59E+00 +/-	5.57E-01	1.53E+00	4.09E-04 +/-	1.03E-04
	5	111.70	9.94E-01 +/-	3.77E-01	1.51E+00	4.03E-04 +/-	4.47E-05
M	6	125.97	1.09E+00 +/-	1.60E-01	1.50E+00	4.00E-04 +/-	2.37E-05
m	7	130.02	7.30E+00 +/-	4.54E-01	1.49E+00	3.99E-04 +/-	2.64E-05
	8	189.45	5.21E-01 +/-	2.32E-01	1.42E+00	3.92E-04 +/-	4.82E-05
	9	204.18	9.24E-01 +/-	2.19E-01	1.41E+00	3.89E-04 +/-	4.47E-05
	10	208.71	7.71E-01 +/-	3.02E-01	1.40E+00	3.88E-04 +/-	4.33E-05
	11	333.43	5.79E-01 +/-	1.50E-01	1.33E+00	3.43E-04 +/-	1.63E-05
	12	345.80	6.50E-01 +/-	1.37E-01	1.32E+00	3.38E-04 +/-	1.66E-05
	13	375.75	1.59E+00 +/-	2.04E-01	1.31E+00	3.25E-04 +/-	1.79E-05
M	14	380.87	4.25E-01 +/-	8.99E-02	1.31E+00	3.23E-04 +/-	1.81E-05
m	15	383.48	4.49E-01 +/-	9.36E-02	1.31E+00	3.21E-04 +/-	1.83E-05
	16	393.72	8.61E-01 +/-	1.34E-01	1.30E+00	3.17E-04 +/-	1.87E-05
	17	413.70	1.95E+00 +/-	1.46E-01	1.29E+00	3.08E-04 +/-	1.94E-05

18	452.32	3.36E-01	+/- 6.64E-02	1.28E+00	2.91E-04	+/- 2.00E-05
19	662.42	6.21E-02	+/- 4.61E-02	1.23E+00	2.15E-04	+/- 1.30E-05
20	2236.00	1.00E+02	+/- 1.50E+00	1.12E+00	5.79E-05	+/- 3.30E-05

Segment: 12 Detector: DET01 (# 1) Position: 12

Elapsed Live Time: 113.95 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.410 +/- 0.0119
SE-75	264.65	0.000 +/- 0.0000	0.481 +/- 0.0074
SE-75	279.53	0.000 +/- 0.0000	0.497 +/- 0.0090
SE-75	400.65	0.000 +/- 0.0000	0.556 +/- 0.0120

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.08	4.20E-01 +/- 1.24E-01	1.81E+00	2.43E-09 +/- 1.49E-08
	2	49.66	6.90E+00 +/- 8.28E-01	1.55E+00	1.91E-06 +/- 4.92E-06
	3	60.18	3.09E+01 +/- 9.29E-01	1.49E+00	1.30E-05 +/- 2.08E-05
	4	99.37	2.48E+00 +/- 4.24E-01	1.41E+00	2.33E-04 +/- 5.60E-05
M	5	126.10	5.39E-01 +/- 1.15E-01	1.38E+00	4.17E-04 +/- 2.46E-05
m	6	130.08	3.77E+00 +/- 3.31E-01	1.38E+00	4.38E-04 +/- 2.83E-05
	7	208.66	3.16E-01 +/- 2.17E-01	1.33E+00	5.31E-04 +/- 5.52E-05
	8	333.42	2.84E-01 +/- 1.03E-01	1.27E+00	3.62E-04 +/- 1.72E-05
	9	345.73	4.11E-01 +/- 9.85E-02	1.26E+00	3.49E-04 +/- 1.72E-05
	10	375.81	8.60E-01 +/- 1.08E-01	1.25E+00	3.19E-04 +/- 1.79E-05
	11	393.36	3.04E-01 +/- 8.44E-02	1.24E+00	3.03E-04 +/- 1.82E-05
	12	400.66	8.91E-02 +/- 6.21E-02	1.24E+00	2.98E-04 +/- 1.83E-05
	13	413.70	1.04E+00 +/- 1.08E-01	1.24E+00	2.87E-04 +/- 1.84E-05
	14	511.40	1.37E-01 +/- 5.25E-02	1.21E+00	2.31E-04 +/- 1.67E-05
	15	867.39	4.33E-02 +/- 1.94E-02	1.16E+00	1.48E-04 +/- 7.05E-06
	16	1001.03	4.33E-02 +/- 1.94E-02	1.15E+00	1.35E-04 +/- 6.07E-06
	17	1112.12	4.33E-02 +/- 1.94E-02	1.14E+00	1.27E-04 +/- 5.46E-06
	18	1408.01	8.66E-03 +/- 8.66E-03	1.12E+00	1.08E-04 +/- 7.12E-06
	19	2236.00	1.00E+02 +/- 1.50E+00	1.10E+00	6.48E-05 +/- 3.54E-05

Segment: 13 Detector: DET01 (# 1) Position: 13

Elapsed Live Time: 114.14 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.557 +/- 0.0146
SE-75	264.65	0.000 +/- 0.0000	0.620 +/- 0.0093
SE-75	279.53	0.000 +/- 0.0000	0.630 +/- 0.0109
SE-75	400.65	0.000 +/- 0.0000	0.667 +/- 0.0138

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	49.91	7.64E+00 +/- 7.28E-01	1.34E+00	4.88E-06 +/- 1.31E-05
2	60.16	9.21E+00 +/- 5.40E-01	1.31E+00	2.29E-05 +/- 3.87E-05
3	129.29	6.06E-01 +/- 1.91E-01	1.24E+00	4.16E-04 +/- 2.70E-05
4	275.19	2.52E-01 +/- 9.13E-02	1.19E+00	4.14E-04 +/- 2.45E-05
5	345.65	8.26E-02 +/- 4.97E-02	1.17E+00	3.41E-04 +/- 1.75E-05
6	375.78	2.54E-01 +/- 8.27E-02	1.17E+00	3.16E-04 +/- 1.85E-05
7	413.70	2.33E-01 +/- 6.53E-02	1.16E+00	2.89E-04 +/- 1.94E-05
8	1001.03	2.01E-02 +/- 1.74E-02	1.10E+00	1.41E-04 +/- 6.24E-06
9	1112.12	1.87E-02 +/- 1.71E-02	1.09E+00	1.30E-04 +/- 5.64E-06
10	2236.00	1.00E+02 +/- 1.49E+00	1.07E+00	5.36E-05 +/- 3.03E-05

Segment: 14 Detector: DET01 (# 1) Position: 14

Elapsed Live Time: 114.23 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.745 +/- 0.0190
SE-75	264.65	0.000 +/- 0.0000	0.797 +/- 0.0117
SE-75	279.53	0.000 +/- 0.0000	0.802 +/- 0.0133
SE-75	400.65	0.000 +/- 0.0000	0.811 +/- 0.0161

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	49.87	6.40E+00 +/- 5.73E-01	1.16E+00	4.56E-05 +/- 1.14E-04
M	2	57.29	3.15E+00 +/- 3.00E-01	1.15E+00	8.03E-05 +/- 1.43E-04
m	3	60.00	4.72E+00 +/- 3.55E-01	1.15E+00	9.50E-05 +/- 1.50E-04
	4	129.29	2.67E-01 +/- 1.39E-01	1.12E+00	4.20E-04 +/- 2.62E-05
	5	778.90	2.80E-02 +/- 1.95E-02	1.06E+00	1.70E-04 +/- 8.37E-06
	6	1408.01	8.61E-03 +/- 1.94E-02	1.04E+00	1.05E-04 +/- 7.02E-06
	7	2236.00	1.00E+02 +/- 1.49E+00	1.03E+00	7.64E-05 +/- 4.15E-05

Segment: 15 Detector: DET01 (# 1) Position: 15

Elapsed Live Time: 114.31 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.901 +/- 0.0257
SE-75	264.65	0.000 +/- 0.0000	0.895 +/- 0.0191
SE-75	279.53	0.000 +/- 0.0000	0.909 +/- 0.0205
SE-75	400.65	0.000 +/- 0.0000	0.916 +/- 0.0228

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	49.81	7.66E+00 +/- 4.92E-01	1.06E+00	1.69E-06 +/- 4.45E-06
M	2	57.28	8.14E-01 +/- 1.58E-01	1.05E+00	7.75E-06 +/- 1.45E-05
m	3	60.16	2.28E+00 +/- 2.69E-01	1.05E+00	1.23E-05 +/- 2.02E-05
	4	443.98	5.21E-02 +/- 3.80E-02	1.03E+00	2.45E-04 +/- 1.65E-05
	5	2236.00	1.00E+02 +/- 1.49E+00	1.01E+00	3.18E-05 +/- 1.80E-05

Segment: 16 Detector: DET01 (# 1) Position: 16

Elapsed Live Time: 114.32 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.918 +/- 0.0219
SE-75	264.65	0.000 +/- 0.0000	0.926 +/- 0.0135
SE-75	279.53	0.000 +/- 0.0000	0.936 +/- 0.0152
SE-75	400.65	0.000 +/- 0.0000	0.922 +/- 0.0178

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.18	1.96E-01 +/- 6.70E-02	1.06E+00	4.12E-06 +/- 4.92E-06
2	50.28	7.24E+00 +/- 4.80E-01	1.05E+00	3.10E-05 +/- 1.86E-05
3	60.18	1.22E+00 +/- 2.47E-01	1.04E+00	5.62E-05 +/- 2.41E-05
4	244.70	1.53E-01 +/- 8.85E-02	1.03E+00	2.52E-04 +/- 1.64E-05
5	311.90	1.05E-01 +/- 4.94E-02	1.03E+00	2.22E-04 +/- 1.24E-05
6	443.98	3.75E-02 +/- 2.92E-02	1.03E+00	1.68E-04 +/- 8.43E-06
7	867.39	3.44E-02 +/- 1.72E-02	1.02E+00	8.96E-05 +/- 5.22E-06
8	964.13	6.89E-02 +/- 2.44E-02	1.02E+00	8.21E-05 +/- 4.35E-06
9	1001.03	2.53E-02 +/- 2.00E-02	1.02E+00	7.97E-05 +/- 4.05E-06
10	2236.00	1.00E+02 +/- 1.49E+00	1.01E+00	6.28E-05 +/- 1.87E-05

Summed Spectrum

Peak Locate Report

Sample ID: LL85234288
Peak Locate Performed on: 5-01-08 9:18:54 AM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192
Peak Search Sensitivity: 5.00

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
1	64.83	0.1477	32.08	19.83
2	100.70	0.0974	50.01	35.87
3	120.91	0.0242	60.12	746.58
4	199.88	0.0531	99.61	154.55
5	207.93	0.0520	103.63	163.18
6	224.07	0.1263	111.70	27.74
7	231.01	0.1658	115.17	15.37
8	247.00	0.3024	123.63	10.94
9	252.50	0.0697	125.89	87.33
10	260.66	0.0648	129.98	99.72
11	294.87	0.1386	147.07	25.99
12	299.70	0.3543	149.25	5.55
13	307.54	0.1177	153.44	29.66
14	324.59	0.2423	162.06	6.35
15	331.26	0.2221	165.30	10.07
16	340.98	0.1887	170.16	12.94
17	393.46	0.2434	196.39	6.77
18	418.01	0.0737	208.67	77.30
19	444.78	0.2588	222.05	6.33
20	537.05	0.2437	268.19	7.80
21	625.91	0.1735	312.62	14.32
22	647.16	0.1619	323.24	14.97
23	667.10	0.1135	333.36	34.28
24	673.15	0.1142	336.16	34.54
25	684.75	0.2428	342.15	8.51
26	692.10	0.1095	345.75	33.93
27	739.00	0.1322	369.17	23.22
28	752.23	0.0828	375.78	54.75
29	762.15	0.1545	380.92	19.70
30	768.02	0.1544	383.62	18.83
31	787.84	0.1111	393.59	31.00
32	829.56	0.0800	414.45	54.74
33	847.20	0.1777	423.26	12.70
34	905.08	0.1462	452.21	18.72
35	1024.23	0.2189	511.78	6.57
36	1169.01	0.2859	584.17	5.07

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
37	1239.87	0.1806	619.60	11.61
38	1307.73	0.2039	653.53	8.71
39	1326.99	0.1106	663.16	29.33
40	1379.58	0.2331	689.46	6.11
41	1446.32	0.1346	722.82	18.73
42	2667.87	0.2405	1333.60	5.01
43	4473.39	0.0270	2236.36	401.94
44	4591.50	0.1996	2295.42	7.77

Errors quoted at 1.000 sigma

Summed Spectrum

Peak Analysis Report

Sample ID: LL85234288
Peak Analysis Performed on: 5-01-08 9:18:54 AM
Peak Analysis From Channel: 40
Peak Analysis To Channel: 8192

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	1	61-	68	64.83	32.08	1.88E+03	98.89	3.24E+03
	2	94-	103	100.70	50.01	3.50E+04	649.41	1.59E+05
	3	114-	127	120.91	60.12	1.06E+06	1275.83	2.06E+05
	4	194-	204	199.88	99.61	1.76E+04	573.54	1.23E+05
	5	204-	214	207.93	103.63	1.64E+04	552.45	9.05E+04
	6	217-	227	224.07	111.70	8.27E+02	309.35	3.94E+04
	7	227-	237	231.01	115.17	2.45E+03	318.43	4.12E+04
M	8	245-	265	247.92	123.63	3.93E+03	115.96	1.24E+04
m	9	245-	265	252.45	125.89	1.94E+04	217.54	1.10E+04
m	10	245-	265	260.62	129.98	1.99E+04	218.77	8.59E+03
M	11	287-	303	294.82	147.07	2.36E+03	47.02	7.62E+03
m	12	287-	303	299.17	149.25	2.71E+02	29.01	8.24E+03
	13	303-	314	307.54	153.44	1.71E+03	193.41	1.42E+04
M	14	320-	335	324.78	162.06	5.60E+02	87.86	7.41E+03
m	15	320-	335	331.26	165.30	6.78E+02	97.06	6.67E+03
	16	335-	348	340.98	170.16	3.51E+02	179.89	1.16E+04
	17	390-	400	393.46	196.39	4.44E+02	121.30	5.98E+03
	18	413-	425	418.01	208.67	7.81E+03	175.99	8.53E+03
	19	442-	449	444.78	222.05	2.10E+02	77.74	2.88E+03
	20	533-	544	537.05	268.19	1.86E+02	87.35	2.95E+03
	21	623-	629	625.91	312.62	5.69E+02	53.55	1.21E+03
	22	639-	654	647.16	323.24	1.32E+03	97.11	2.70E+03
M	23	659-	680	667.39	333.36	3.33E+03	85.62	1.59E+03
m	24	659-	680	673.00	336.16	3.35E+03	85.94	1.64E+03
M	25	680-	699	684.96	342.15	2.07E+02	31.49	1.35E+03
m	26	680-	699	692.16	345.75	2.14E+03	86.74	1.19E+03
	27	731-	746	739.00	369.17	1.46E+03	95.69	2.53E+03
	28	746-	759	752.23	375.78	4.56E+03	122.80	3.70E+03
M	29	759-	775	762.50	380.92	5.89E+02	48.31	1.61E+03
m	30	759-	775	767.90	383.62	8.09E+02	54.77	1.05E+03
	31	780-	795	787.84	393.59	2.19E+03	75.78	1.19E+03
	32	821-	837	829.56	414.45	5.49E+03	95.31	1.15E+03
	33	844-	852	847.20	423.26	1.27E+02	42.90	7.84E+02
	34	897-	912	905.08	452.21	6.36E+02	52.53	7.07E+02
	35	1016-	1032	1024.23	511.78	3.91E+02	42.18	4.43E+02
	36	1165-	1175	1169.01	584.17	5.27E+01	21.48	1.71E+02
	37	1231-	1246	1239.87	619.60	2.86E+02	29.47	1.94E+02

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
38	1299-	1313	1307.73	653.53	1.68E+02	27.63	2.07E+02
39	1322-	1335	1326.99	663.16	1.48E+03	45.51	2.12E+02
40	1373-	1385	1379.58	689.46	6.82E+01	21.58	1.50E+02
41	1440-	1454	1446.32	722.82	7.39E+02	35.10	1.71E+02
42	2663-	2673	2667.87	1333.60	4.99E+01	10.51	2.51E+01
43	4468-	4483	4473.39	2236.36	1.78E+05	425.07	6.04E+02
44	4587-	4601	4591.50	2295.42	1.02E+02	24.50	1.17E+02

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Summed Spectrum

Nuclide Identification Report

Sample ID: LL85234288
Nuclide Library Used: C:\WAS\NLIB\LLNL.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (uCi/)	Activity Uncertainty
Pulser	0.991	2236.00*	100.00	7.675E+02	1.843E+02
Np-237	0.732	300.10	6.63		
		311.90*	38.60	1.472E+00	1.392E-01
Pu-238	0.960	152.68*	0.00	1.656E+05	1.905E+04
Pu-239	0.961	413.70*	0.00	4.503E+05	1.150E+04
Pu-239A	0.967	129.29*	0.01	3.279E+05	8.815E+03
Am-241	0.962	662.42*	0.00	6.572E+05	2.115E+04
Am-241D	0.954	722.01*	0.00	7.150E+05	3.469E+04
Pu-241	0.967	148.57*	0.00	1.341E+05	1.459E+04

* = Energy line found in the spectrum.
Energy Tolerance : 1.500 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 5-01-08 9:18:54 AM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192

	Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
	1	32.08	1.6888E+01	5.27
	2	50.01	3.1517E+02	1.87
	3	60.12	9.5171E+03	0.29
	4	99.61	1.5801E+02	3.28
	5	103.63	1.4732E+02	3.38
	6	111.70	7.4437E+00	37.39
	7	115.17	2.2064E+01	12.99
M	8	123.63	3.5334E+01	2.96
m	9	125.89	1.7416E+02	1.15
M	11	147.07	2.1193E+01	2.01
M	14	162.06	5.0361E+00	15.70
m	15	165.30	6.0992E+00	14.32
	16	170.16	3.1561E+00	51.28
	17	196.39	3.9937E+00	27.33
	18	208.67	7.0241E+01	2.27
	19	222.05	1.8926E+00	36.96
	20	268.19	1.6776E+00	46.85
	22	323.24	1.1876E+01	7.36
M	23	333.36	2.9933E+01	2.59
m	24	336.16	3.0124E+01	2.58
M	25	342.15	1.8622E+00	15.22
m	26	345.75	1.9292E+01	4.05
	27	369.17	1.3154E+01	6.55
	28	375.78	4.1058E+01	2.70
M	29	380.92	5.3017E+00	8.20
m	30	383.62	7.2771E+00	6.78
	31	393.59	1.9683E+01	3.47
	33	423.26	1.1404E+00	33.85
	34	452.21	5.7187E+00	8.27
	35	511.78	3.5190E+00	10.79
	36	584.17	4.7434E-01	40.74
	37	619.60	2.5737E+00	10.31
	38	653.53	1.5154E+00	16.41
	40	689.46	6.1374E-01	31.65
	42	1333.60	4.4916E-01	21.06
	44	2295.42	9.2064E-01	23.95

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Combined Segment NID

NID Results Combiner Mode: Sum Activities

Nuclide		Total Activity (uCi)			Concentration (uCi/g)	
Pulser		8.43E+02	+/-	1.25E+02	2.36E-02	+/- 3.48E-03
SE-75	<	1.76E-01	+/-	1.18E-02	< 4.91E-06	+/- 3.31E-07
EU-152x	<	2.62E-01	+/-	1.97E-02	< 7.31E-06	+/- 5.50E-07
U-233	<	1.11E+04	+/-	8.98E+02	< 3.11E-01	+/- 2.51E-02
U-235		2.09E-01	+/-	7.38E-02	5.85E-06	+/- 2.06E-06
Np-237		1.19E+00	+/-	1.83E-01	3.32E-05	+/- 5.10E-06
Pu-238		2.65E+05	+/-	1.60E+04	7.41E+00	+/- 4.46E-01
U-238		8.10E+00	+/-	1.87E+00	2.26E-04	+/- 5.22E-05
Pu-239		4.99E+05	+/-	1.30E+04	1.39E+01	+/- 3.64E-01
Pu-239A		3.65E+05	+/-	8.83E+03	1.02E+01	+/- 2.47E-01
Am-241		7.85E+05	+/-	3.60E+04	2.19E+01	+/- 1.01E+00
Am-241D		8.60E+05	+/-	4.43E+04	2.40E+01	+/- 1.24E+00
Pu-241		1.48E+06	+/-	1.51E+05	4.13E+01	+/- 4.22E+00

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
U-235	9.69E-02	+/-	3.42E-02
Np-237	1.69E-03	+/-	2.59E-04
Pu-238	1.55E-02	+/-	9.32E-04
U-238	2.41E+01	+/-	5.57E+00
Pu-239	8.03E+00	+/-	2.10E-01
Pu-239A	5.88E+00	+/-	1.42E-01
Am-241	2.29E-01	+/-	1.05E-02
Pu-241	1.43E-02	+/-	1.46E-03

Summed Spectrum

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		7.68E+02	+/-	1.84E+02	2.14E-02	+/-	5.15E-03
SE-75	<	5.75E-01	+/-	5.50E-03	< 1.61E-05	+/-	1.54E-07
EU-152x	<	5.83E-01	+/-	1.10E-02	< 1.63E-05	+/-	3.07E-07
U-233	<	4.02E+04	+/-	8.98E+02	< 1.12E+00	+/-	2.51E-02
U-235	<	8.38E-01	+/-	1.96E-02	< 2.34E-05	+/-	5.48E-07
Np-237		1.47E+00	+/-	1.39E-01	4.11E-05	+/-	3.89E-06
Pu-238		1.66E+05	+/-	1.91E+04	4.63E+00	+/-	5.32E-01
U-238	<	1.53E+01	+/-	2.46E-01	< 4.28E-04	+/-	6.86E-06
Pu-239		4.50E+05	+/-	1.15E+04	1.26E+01	+/-	3.21E-01
Pu-239A		3.28E+05	+/-	8.82E+03	9.16E+00	+/-	2.46E-01
Am-241		6.57E+05	+/-	2.12E+04	1.84E+01	+/-	5.91E-01
Am-241D		7.15E+05	+/-	3.47E+04	2.00E+01	+/-	9.69E-01
Pu-241		1.34E+05	+/-	1.46E+04	3.75E+00	+/-	4.07E-01

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
Np-237	2.09E-03	+/-	1.98E-04
Pu-238	9.67E-03	+/-	1.11E-03
Pu-239	7.25E+00	+/-	1.85E-01
Pu-239A	5.28E+00	+/-	1.42E-01
Am-241	1.92E-01	+/-	6.18E-03
Pu-241	1.30E-03	+/-	1.41E-04

Final Non-Uniformity Results

Source Longitudinal Ratio: 0.989 +/- 13.9559
Matrix Longitudinal Ratio: 0.875 +/- 0.1010

Source Vertical Ratio: 0.851 +/- 0.4591
Matrix Vertical Ratio: 0.864 +/- 0.0219

NUDS could not find the transmission peak in one radial segment.

Radioassay Data Sheet — Mon Apr 7 03:21:20 2008
Procedure ID & Rev: WCP-55 03/07/2002 — Software Version: GWAS v2.3bGEN

Drum ID	: LL850001773	Gross Weight (kg)	: 64.8
Sequence Number	: 2661	Fill Height (%)	: 100.0
Assay Date	: 04/07/08 14:22:52	Density (g/cc)	: 0.20
		Net Weight (kg)	: 41.00
Batch Number	:	Waste Matrix Code	:
Site ID	:	TRUCON	:

	Errors at 1.00 Sigma		
TRU Alpha Activity Concentration:	1.64e-04	+/- 2.32e-05	Ci/g
Total Pu-239 Equiv Activity:	6.93e+00	+/- 9.53e-01	Ci
Total Pu-239 Fissile Gram Equiv:	7.83e+01	+/- 1.48e+01	g
Decay Heat:	2.14e-01	+/- 3.00e-02	W
Total Pu Mass:	8.30e+01	+/- 1.49e+01	g
TMU:	19.04%		
Waste Classification:	TRU		

Isotopics Data

Measured Isotope	MGA Report Weight %	MGA Report % Err (1.00 Sigma)
Pu-238	1.89e-02	6.53e+00
Pu-239	9.39e+01	1.69e-01
Pu-240	5.97e+00	2.38e+00
Pu-241	1.28e-01	1.50e+01
Pu-242	2.54e-02	1.10e+01
Am-241	2.45e-01	2.80e+00
Am-243	0.00e+00	0.00e+00
Np-237	0.00e+00	0.00e+00
U-235	0.00e+00	0.00e+00

Activity Errors

Isotope	Isotope Mass (g)	1.00 Sigma Error/Isotope Mass (g)	Alpha Activity/ Isotope (Ci)	1.00 Sigma Error/Isotope (Ci)	MDA (g)
Pu-238	1.57e-02	3.15e-03	2.68e-01	5.40e-02	1.64e-03
Pu-239	7.79e+01	1.48e+01	4.83e+00	9.20e-01	1.72e-01
Pu-240	4.96e+00	9.52e-01	1.13e+00	2.16e-01	0.00e+00
Pu-241	1.06e-01	2.57e-02	1.10e+01	2.66e+00	1.80e-03
Pu-242	2.11e-02	4.64e-03	8.28e-05	1.82e-05	0.00e+00
Am-241	1.48e-01	2.87e-02	5.07e-01	9.80e-02	5.65e-03
Am-243	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
Np-237	2.86e-02	5.40e-03	2.02e-05	3.81e-06	8.46e-04
*U-235	<LLD	0.00e+00	0.00e+00	0.00e+00	1.94e-01
U-238	1.49e+01	6.07e+00	5.01e-06	2.04e-06	1.38e+01
*U-233	<LLD	0.00e+00	0.00e+00	0.00e+00	1.94e+00
CS-137	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
U-234	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
SR-90	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00

* = Activity/Mass below detectable limit.

Operator Signature — Date

Robert J. Hazlett Jr — 5-1-08

Reviewer Signature — Date

AUTOMATED INDEPENDENT TECHNICAL REVIEW BASED ON WCP-55 03/07/2002

Software Version: GWAS v2.3bGEN
Counter Number: SGS
Data Review for Container: LL850001773
Item Description Code: \Count Type: DEBRIS
Sequence Number: 2661
Assayed on: 04/07/08 14:22:52
Report Generated: 04/07/08 15:21:04
AITR Version 1.4

Section 1 MGA Analysis Review Using MGA Isotopics

Pu-240 Wt Pct <5.97> +/- 2 Sigma error <0.28>
is within limits
Pu-240 Wt Pct error <2.38> is within limits
Pu-238 Wt Pct error <6.53> is within limits
REVIEW QFIT <1.66> > <1.20> Review MGA Results OK
REVIEW MGAERR12: Calculations in MGAABS didn't converge: MGA results may be suspect OK

Section 2 - CONTAINER DENSITY REVIEW

Container density <0.197> g/cc is within UPPER and LOWER limits

Section 3 - SELF-ABSORPTION REVIEW

Pu-239/Pu-239a ratio <2.10e+00> is within limits

Section 4 - PULSER REVIEW

DEAD TIME percentage <1.76> is acceptable in Segment 1
Pulser value <0.99> is within range in Segment 1
DEAD TIME percentage <1.35> is acceptable in Segment 2
Pulser value <0.99> is within range in Segment 2
DEAD TIME percentage <1.40> is acceptable in Segment 3
Pulser value <0.99> is within range in Segment 3
DEAD TIME percentage <4.00> is acceptable in Segment 4
Pulser value <0.99> is within range in Segment 4
DEAD TIME percentage <9.84> is acceptable in Segment 5
Pulser value <1.00> is within range in Segment 5
DEAD TIME percentage <9.26> is acceptable in Segment 6
Pulser value <0.99> is within range in Segment 6
DEAD TIME percentage <5.43> is acceptable in Segment 7
Pulser value <0.99> is within range in Segment 7
DEAD TIME percentage <4.70> is acceptable in Segment 8
Pulser value <1.01> is within range in Segment 8
DEAD TIME percentage <6.14> is acceptable in Segment 9
Pulser value <1.00> is within range in Segment 9
DEAD TIME percentage <5.37> is acceptable in Segment 10
Pulser value <1.01> is within range in Segment 10
DEAD TIME percentage <2.68> is acceptable in Segment 11
Pulser value <0.99> is within range in Segment 11
DEAD TIME percentage <1.36> is acceptable in Segment 12
Pulser value <0.99> is within range in Segment 12
DEAD TIME percentage <1.13> is acceptable in Segment 13
Pulser value <0.99> is within range in Segment 13
DEAD TIME percentage <1.43> is acceptable in Segment 14
Pulser value <0.99> is within range in Segment 14
DEAD TIME percentage <1.43> is acceptable in Segment 15
Pulser value <0.99> is within range in Segment 15
DEAD TIME percentage <0.97> is acceptable in Segment 16
Pulser value <1.00> is within range in Segment 16

Section 5 - TRANSMISSION REVIEW

Transmission results are acceptable in Segment 1
Transmission results are acceptable in Segment 2
Transmission results are acceptable in Segment 3
Transmission results are acceptable in Segment 4
Transmission results are acceptable in Segment 5

Transmission results are acceptable in Segment 6
Transmission results are acceptable in Segment 7
Transmission results are acceptable in Segment 8
Transmission results are acceptable in Segment 9
Transmission results are acceptable in Segment 10
Transmission results are acceptable in Segment 11
Transmission results are acceptable in Segment 12
Transmission results are acceptable in Segment 13
Transmission results are acceptable in Segment 14
Transmission results are acceptable in Segment 15
Transmission results are acceptable in Segment 16

Section 6 - REDUCED CHI SQUARED FIT REVIEW

REVIEW Reduced chi squared fit value <5.51e+00> exceeds limit <3.00> for energy peak <663.26> in the .A04

Section 7 - FGE MASS REVIEW

FGE Mass <93.12> is within limits

Section 8 - PERCENT FULL REVIEW

Percent Full <100.0> is above lower limit <30.0>

Section 9 - IDC COUNT TYPE REVIEW

REVIEW IDC is not available

Section 10 - AM-241 & NP-237 INTERFERENCE REVIEW

Am-241 ratio <525.40> is above lower limit <200.00>
Np-237 ratio <2725.22> is above lower limit <125.00>

Section 11 - PU-239 CALIBRATION RANGE REVIEW

Pu-239 <77.92> is within limits

Section 12 - CS-137 INTERFERENCE REVIEW

Am-241D > Am-241A: Calculation not performed Ok. Checked.

Independent Reviewer: Robert Hewlett Date: 5-1-08

INDEPENDENT TECHNICAL REVIEW COMMENT SHEET

Counter Number: SGS
Data Review for Container: LL850001773
Item Description Code:
Sequence Number: 2661
Assayed on: 04/07/08 14:22:52
AITR Version 1.4

Comments	Disposition
SECTION 1 - MGA	
QFIT is greater than upper limit.	OK
MGAERR12	OK
SECTION 6 - REDUCED CHI SQUARED FIT	
Chi square failure for 663.3 KeV in .A04 Spectrum.	OK
SECTION 9 - IDC COUNT TYPE	
IDC is not available.	N/A

Technical Reviewer: Robert J. Hewlett Jr. Date: 5-1-08

****
***** MGA REPORT *****
****

Report generated on: 4-07-08 3:19:23 PM

MGA version: MGA V9.5 CI

Spectrum ID: 11202661.CNF Sens : 30.0% LT: 51.1 Mins DT: 8.42
Measurement date: 4-07-08 Declared date: 4-07-08

Sample ID: LL850001773 Detector: Total counts: 7.378E+06

Pu g/cm2 = 5.0000 Cd g/cm2 = 0.6698 FWHM at 122 keV = 632 eV
QFIT = 1.66 FWHM at 208 keV = 808 eV
NQFIT = 1.05

Isotope	Relative to Pu-239	%* Err	% Err	Relative to Pu-241	%* Err	Isotope analysis at Meas. date % weight	%Err	Decl. date % weight	%Err
Pu-238	0.000201	6.6	6.2	0.1476	14.2	0.01887	6.53	0.01887	6.53
Pu-239	1.000000	0.0	2.1	733.7863	15.1	93.85374	0.17	93.85374	0.17
Pu-240	0.063653	2.5	1.5	46.7076	13.2	5.97406	2.38	5.97406	2.38
Pu-241	0.001363	15.1	13.1	1.0000	0.0	0.12790	14.97	0.12790	14.97
Pu-242	(New alg.)			0.1987	(11)	0.02542	(11)	0.02542	(11)
Am-241	0.002609	2.9	1.1	1.9142	12.5	0.24483	2.80	0.24483	2.80

Pu-240 effective (meas. date) = 6.064 +/- 3.05%
U-237 separated more than 10 days ago
Am-241 separated about 22.144 +/- 1.904 years ago
Am/Pu-241 weight ratio = 1.91416 +/- 13.14%

Messages :

Lead x-rays detected.
Calculations in MGAABS didn't converge : results may be suspect.
Pu-241/Pu-239 efficiency changed in MGACAL by 1%.
17 MGA parameter(s) defaulted, starting from parameter 8.

Notes : * = Error in ratio
1.000 sigma errors

Gamma Waste Assay

Sample Information

File Name: C:\WAS\DATA\2700\11102661.S11
Sample ID: LL850001773 Count Sequence Number: 2661
Assay Start: 4-07-08 2:22:54 PM
Description 1:
Description 2:
Location:
Comment:
Waste Type:
Weight: Gross: 64800.0 g Net: 41000.0 g
Density: 0.197 g /ml

Container Type: 55 Gal Galv 23.8
Container: Volume: 208000. ml Full: 100.0 %

System Configuration

Counter ID Number: SGS
Arrangement Description: SGS
Segments: Number: 16 Offset: 0
Scanning Platform: Start: 934 mm Delta: -51 mm
Count Type: 55 Gal Galv 23.8
Collimator/Geometry Setting: 0
Transmission Mode: Two pass
Transmission Source: 0

Errors quoted at 1.000 sigma
Reference Source Date: Reference Source Rate: 1.00E+02 cps
Geometric Correction Factor(SWCONTGCF): 0.760
Date of efficiency calibration approval: 8-27-2003 2:05:34 PM
Mu Factors response file: Lucite
Transmission Calib. Time: 12-10-2007 3:51:07 PM 28849

Reviewed by: Robert J Hackett Jr Date: 5-1-08

Segment Results

Segment: 1 Detector: DET01 (# 1) Position: 1

Elapsed Live Time: 112.98 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.031 +/- 0.0057
SE-75	264.65	0.000 +/- 0.0000	0.248 +/- 0.0043
SE-75	279.53	0.000 +/- 0.0000	0.267 +/- 0.0057
SE-75	400.65	0.000 +/- 0.0000	0.356 +/- 0.0088

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.74	6.36E-01 +/- 1.93E-01	4.10E+00	3.78E-10 +/- 2.73E-09
	2	49.37	5.09E+00 +/- 6.87E-01	3.80E+00	7.12E-07 +/- 2.14E-06
	3	60.18	7.49E+01 +/- 1.35E+00	3.48E+00	6.35E-06 +/- 1.17E-05
	4	76.20	6.23E-01 +/- 3.37E-01	3.22E+00	4.08E-05 +/- 3.66E-05
	5	99.31	7.64E+00 +/- 5.71E-01	3.02E+00	1.51E-04 +/- 4.18E-05
	6	111.61	2.52E+00 +/- 5.09E-01	2.95E+00	2.19E-04 +/- 2.68E-05
M	7	125.97	2.62E+00 +/- 2.46E-01	2.89E+00	2.87E-04 +/- 1.88E-05
m	8	130.02	1.90E+01 +/- 7.26E-01	2.87E+00	3.04E-04 +/- 2.20E-05
	9	144.79	8.35E-01 +/- 4.19E-01	2.62E+00	3.50E-04 +/- 3.79E-05
	10	161.50	7.77E-01 +/- 3.28E-01	2.34E+00	3.80E-04 +/- 4.97E-05
	11	172.22	1.09E+00 +/- 3.91E-01	2.21E+00	3.88E-04 +/- 5.26E-05
	12	196.26	1.35E+00 +/- 4.05E-01	1.99E+00	3.87E-04 +/- 4.97E-05
	13	208.70	6.29E+00 +/- 4.74E-01	1.91E+00	3.80E-04 +/- 4.53E-05
	14	256.34	6.39E-01 +/- 2.80E-01	1.66E+00	3.33E-04 +/- 2.58E-05
M	15	298.16	3.70E-01 +/- 1.63E-01	1.56E+00	2.89E-04 +/- 1.55E-05
m	16	301.29	2.80E-01 +/- 1.36E-01	1.55E+00	2.86E-04 +/- 1.51E-05
	17	311.90	9.23E-01 +/- 3.26E-01	1.54E+00	2.76E-04 +/- 1.41E-05
M	18	333.53	4.18E+00 +/- 3.31E-01	1.51E+00	2.57E-04 +/- 1.33E-05
m	19	336.60	1.57E+00 +/- 1.73E-01	1.51E+00	2.54E-04 +/- 1.33E-05
M	20	342.29	6.64E-01 +/- 1.11E-01	1.50E+00	2.50E-04 +/- 1.33E-05
m	21	345.75	3.98E+00 +/- 3.21E-01	1.50E+00	2.47E-04 +/- 1.34E-05
	22	375.79	7.86E+00 +/- 4.49E-01	1.47E+00	2.25E-04 +/- 1.40E-05
M	23	380.98	1.87E+00 +/- 1.89E-01	1.46E+00	2.22E-04 +/- 1.41E-05
m	24	383.49	1.87E+00 +/- 1.83E-01	1.46E+00	2.20E-04 +/- 1.41E-05
	25	393.65	3.43E+00 +/- 2.22E-01	1.45E+00	2.14E-04 +/- 1.43E-05
	26	413.70	9.81E+00 +/- 3.27E-01	1.44E+00	2.03E-04 +/- 1.44E-05
	27	423.32	4.89E-01 +/- 1.18E-01	1.43E+00	1.98E-04 +/- 1.45E-05

28	452.30	1.29E+00	+/- 1.31E-01	1.42E+00	1.84E-04	+/- 1.43E-05
29	653.57	1.09E-01	+/- 4.26E-02	1.34E+00	1.28E-04	+/- 9.08E-06
30	662.42	4.18E-01	+/- 8.00E-02	1.34E+00	1.27E-04	+/- 8.85E-06
31	722.01	1.52E-01	+/- 5.15E-02	1.32E+00	1.18E-04	+/- 7.51E-06
32	964.13	3.42E-02	+/- 2.61E-02	1.27E+00	9.44E-05	+/- 5.09E-06
33	2236.00	1.00E+02	+/- 1.50E+00	1.18E+00	3.40E-05	+/- 2.15E-05

Segment: 2 Detector: DET01 (# 1) Position: 2

Elapsed Live Time: 113.45 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.047 +/- 0.0053
SE-75	264.65	0.000 +/- 0.0000	0.312 +/- 0.0052
SE-75	279.53	0.000 +/- 0.0000	0.336 +/- 0.0068
SE-75	400.65	0.000 +/- 0.0000	0.433 +/- 0.0101

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.17	1.50E+00 +/- 2.42E-01	4.10E+00	1.91E-05 +/- 1.18E-04
	2	49.36	3.27E+00 +/- 5.30E-01	3.39E+00	8.04E-05 +/- 2.12E-04
	3	60.19	2.59E+01 +/- 7.28E-01	3.12E+00	1.33E-04 +/- 2.14E-04
	4	99.29	2.73E+00 +/- 4.72E-01	2.73E+00	3.09E-04 +/- 7.54E-05
	5	111.68	1.11E+00 +/- 4.25E-01	2.67E+00	3.48E-04 +/- 3.78E-05
M	6	126.00	1.47E+00 +/- 2.02E-01	2.61E+00	3.82E-04 +/- 2.26E-05
m	7	130.03	1.09E+01 +/- 5.68E-01	2.60E+00	3.89E-04 +/- 2.53E-05
	8	148.57	2.35E+00 +/- 4.84E-01	2.33E+00	4.14E-04 +/- 4.21E-05
	9	171.86	9.72E-01 +/- 3.83E-01	2.04E+00	4.29E-04 +/- 5.10E-05
	10	208.72	3.79E+00 +/- 3.50E-01	1.76E+00	4.25E-04 +/- 4.48E-05
	11	311.90	8.38E-01 +/- 2.20E-01	1.43E+00	3.58E-04 +/- 1.69E-05
M	12	321.78	3.64E-01 +/- 1.27E-01	1.42E+00	3.51E-04 +/- 1.65E-05
m	13	324.70	5.41E-01 +/- 1.56E-01	1.42E+00	3.49E-04 +/- 1.64E-05
M	14	333.55	2.31E+00 +/- 2.57E-01	1.41E+00	3.42E-04 +/- 1.64E-05
m	15	336.44	8.09E-01 +/- 1.38E-01	1.41E+00	3.40E-04 +/- 1.64E-05
	16	345.78	1.74E+00 +/- 2.49E-01	1.40E+00	3.34E-04 +/- 1.66E-05
	17	368.87	5.82E-01 +/- 2.15E-01	1.38E+00	3.18E-04 +/- 1.73E-05
	18	375.78	4.49E+00 +/- 3.62E-01	1.37E+00	3.13E-04 +/- 1.76E-05
M	19	380.99	1.22E+00 +/- 1.56E-01	1.37E+00	3.10E-04 +/- 1.77E-05
m	20	383.57	1.15E+00 +/- 1.44E-01	1.37E+00	3.08E-04 +/- 1.78E-05
	21	393.61	2.88E+00 +/- 1.97E-01	1.36E+00	3.01E-04 +/- 1.81E-05
	22	413.70	6.10E+00 +/- 2.53E-01	1.35E+00	2.89E-04 +/- 1.85E-05
	23	423.17	2.91E-01 +/- 1.07E-01	1.34E+00	2.84E-04 +/- 1.86E-05
	24	452.33	6.29E-01 +/- 1.01E-01	1.33E+00	2.67E-04 +/- 1.85E-05

25	662.42	2.06E-01 +/-	5.65E-02	1.27E+00	1.86E-04 +/-	1.15E-05
26	722.01	1.43E-01 +/-	3.96E-02	1.26E+00	1.71E-04 +/-	9.64E-06
27	867.39	5.52E-02 +/-	4.00E-02	1.23E+00	1.44E-04 +/-	6.91E-06
28	2236.00	1.00E+02 +/-	1.50E+00	1.14E+00	9.73E-05 +/-	5.41E-05

Segment: 3 Detector: DET01 (# 1) Position: 3

Elapsed Live Time: 113.39 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.042 +/- 0.0082
SE-75	264.65	0.000 +/- 0.0000	0.301 +/- 0.0050
SE-75	279.53	0.000 +/- 0.0000	0.322 +/- 0.0066
SE-75	400.65	0.000 +/- 0.0000	0.416 +/- 0.0099

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.81	1.61E+00 +/- 2.22E-01	4.10E+00	3.29E-06 +/- 3.18E-06
	2	49.50	3.47E+00 +/- 5.84E-01	3.48E+00	3.71E-05 +/- 1.84E-05
	3	60.17	3.33E+01 +/- 8.58E-01	3.20E+00	8.08E-05 +/- 2.79E-05
	4	99.37	2.65E+00 +/- 4.85E-01	2.80E+00	2.97E-04 +/- 3.03E-05
	5	111.66	9.46E-01 +/- 4.81E-01	2.74E+00	3.54E-04 +/- 2.60E-05
M	6	126.13	9.56E-01 +/- 1.88E-01	2.68E+00	4.08E-04 +/- 2.26E-05
m	7	130.00	7.91E+00 +/- 5.09E-01	2.66E+00	4.20E-04 +/- 2.22E-05
	8	204.24	1.75E+00 +/- 2.84E-01	1.81E+00	4.93E-04 +/- 2.59E-05
	9	208.73	6.51E-01 +/- 4.77E-01	1.79E+00	4.92E-04 +/- 2.59E-05
	10	311.90	6.88E-01 +/- 2.48E-01	1.45E+00	4.04E-04 +/- 1.79E-05
M	11	333.39	2.00E+00 +/- 2.51E-01	1.43E+00	3.84E-04 +/- 1.63E-05
m	12	336.27	6.55E-01 +/- 1.34E-01	1.43E+00	3.81E-04 +/- 1.61E-05
	13	345.72	1.64E+00 +/- 2.00E-01	1.42E+00	3.72E-04 +/- 1.56E-05
	14	375.81	3.25E+00 +/- 3.17E-01	1.39E+00	3.46E-04 +/- 1.41E-05
M	15	380.94	7.78E-01 +/- 1.38E-01	1.39E+00	3.42E-04 +/- 1.38E-05
m	16	383.52	7.76E-01 +/- 1.33E-01	1.38E+00	3.40E-04 +/- 1.37E-05
	17	393.64	1.84E+00 +/- 1.67E-01	1.38E+00	3.31E-04 +/- 1.34E-05
	18	413.70	4.54E+00 +/- 2.36E-01	1.36E+00	3.16E-04 +/- 1.28E-05
	19	423.25	4.01E-01 +/- 1.01E-01	1.36E+00	3.09E-04 +/- 1.26E-05
	20	452.16	4.20E-01 +/- 8.76E-02	1.35E+00	2.89E-04 +/- 1.20E-05
	21	662.42	1.82E-01 +/- 4.90E-02	1.28E+00	1.95E-04 +/- 9.62E-06
	22	722.01	8.89E-02 +/- 4.01E-02	1.27E+00	1.79E-04 +/- 8.87E-06
	23	1001.03	3.44E-02 +/- 2.20E-02	1.22E+00	1.35E-04 +/- 5.37E-06
	24	2236.00	1.00E+02 +/- 1.50E+00	1.15E+00	1.32E-04 +/- 3.24E-05

Segment: 4 Detector: DET01 (# 1) Position: 4

Elapsed Live Time: 110.40 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.065 +/- 0.0093
SE-75	264.65	0.000 +/- 0.0000	0.330 +/- 0.0055
SE-75	279.53	0.000 +/- 0.0000	0.344 +/- 0.0072
SE-75	400.65	0.000 +/- 0.0000	0.426 +/- 0.0106

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.97	3.77E+00 +/- 4.05E-01	4.10E+00	1.14E-07 +/- 7.02E-07
	2	49.79	7.18E+00 +/- 1.05E+00	3.07E+00	1.02E-05 +/- 2.58E-05
	3	60.18	1.86E+02 +/- 2.74E+00	2.84E+00	3.62E-05 +/- 5.76E-05
	4	99.29	2.43E+01 +/- 1.13E+00	2.51E+00	2.63E-04 +/- 6.36E-05
	5	111.69	3.63E+00 +/- 9.61E-01	2.46E+00	3.35E-04 +/- 3.62E-05
	6	115.96	5.79E+00 +/- 1.00E+00	2.44E+00	3.56E-04 +/- 2.87E-05
M	7	125.96	5.39E+00 +/- 3.74E-01	2.41E+00	4.00E-04 +/- 2.37E-05
m	8	130.01	5.68E+01 +/- 1.37E+00	2.39E+00	4.14E-04 +/- 2.68E-05
	9	144.72	1.75E+00 +/- 6.61E-01	2.24E+00	4.55E-04 +/- 4.30E-05
	10	148.57	2.11E+00 +/- 6.44E-01	2.19E+00	4.63E-04 +/- 4.66E-05
	11	161.72	1.40E+00 +/- 7.06E-01	2.04E+00	4.81E-04 +/- 5.50E-05
	12	172.15	1.66E+00 +/- 7.96E-01	1.95E+00	4.88E-04 +/- 5.77E-05
	13	180.06	1.34E+00 +/- 4.35E-01	1.89E+00	4.90E-04 +/- 5.79E-05
	14	189.92	1.07E+00 +/- 5.65E-01	1.82E+00	4.89E-04 +/- 5.65E-05
	15	196.36	1.97E+00 +/- 5.58E-01	1.78E+00	4.87E-04 +/- 5.48E-05
	16	208.70	1.72E+01 +/- 8.24E-01	1.71E+00	4.80E-04 +/- 5.04E-05
	17	256.19	2.00E+00 +/- 4.73E-01	1.51E+00	4.36E-04 +/- 3.05E-05
M	18	298.06	1.06E+00 +/- 2.91E-01	1.44E+00	3.91E-04 +/- 1.92E-05
m	19	300.87	5.37E-01 +/- 2.04E-01	1.44E+00	3.89E-04 +/- 1.88E-05
	20	311.90	3.58E+00 +/- 5.21E-01	1.43E+00	3.77E-04 +/- 1.75E-05
M	21	321.65	1.46E+00 +/- 2.84E-01	1.42E+00	3.68E-04 +/- 1.69E-05
m	22	324.29	1.43E+00 +/- 2.79E-01	1.42E+00	3.65E-04 +/- 1.67E-05
M	23	333.50	1.33E+01 +/- 6.15E-01	1.41E+00	3.57E-04 +/- 1.65E-05
m	24	336.44	3.11E+00 +/- 2.67E-01	1.41E+00	3.54E-04 +/- 1.65E-05
M	25	342.21	1.93E+00 +/- 2.04E-01	1.40E+00	3.49E-04 +/- 1.65E-05
m	26	345.75	1.37E+01 +/- 6.10E-01	1.40E+00	3.46E-04 +/- 1.65E-05
	27	375.80	2.63E+01 +/- 8.58E-01	1.38E+00	3.21E-04 +/- 1.71E-05
M	28	380.94	5.38E+00 +/- 3.57E-01	1.37E+00	3.17E-04 +/- 1.72E-05
m	29	383.54	5.16E+00 +/- 3.36E-01	1.37E+00	3.15E-04 +/- 1.73E-05
	30	393.71	1.24E+01 +/- 4.48E-01	1.36E+00	3.07E-04 +/- 1.75E-05
	31	413.70	3.35E+01 +/- 7.10E-01	1.35E+00	2.94E-04 +/- 1.78E-05
	32	423.37	1.80E+00 +/- 2.42E-01	1.35E+00	2.87E-04 +/- 1.79E-05

33	446.38	2.22E-01 +/-	1.24E-01	1.34E+00	2.73E-04 +/-	1.78E-05
34	452.19	4.22E+00 +/-	2.24E-01	1.34E+00	2.70E-04 +/-	1.78E-05
35	481.70	1.35E-01 +/-	5.64E-02	1.33E+00	2.54E-04 +/-	1.73E-05
36	619.59	4.07E-01 +/-	7.81E-02	1.29E+00	2.02E-04 +/-	1.27E-05
37	646.74	1.31E-01 +/-	8.13E-02	1.28E+00	1.94E-04 +/-	1.18E-05
38	662.42	8.94E-01 +/-	1.25E-01	1.27E+00	1.90E-04 +/-	1.13E-05
39	722.01	5.24E-01 +/-	8.51E-02	1.26E+00	1.77E-04 +/-	9.59E-06
40	769.97	1.35E-01 +/-	5.03E-02	1.25E+00	1.68E-04 +/-	8.56E-06
41	2236.00	1.00E+02 +/-	1.52E+00	1.14E+00	7.00E-05 +/-	3.84E-05

Segment: 5 Detector: DET01 (# 1) Position: 5

Elapsed Live Time: 103.68 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.191 +/- 0.0125
SE-75	264.65	0.000 +/- 0.0000	0.319 +/- 0.0076
SE-75	279.53	0.000 +/- 0.0000	0.318 +/- 0.0088
SE-75	400.65	0.000 +/- 0.0000	0.387 +/- 0.0124

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.99	6.00E+00 +/- 5.41E-01	2.70E+00	2.71E-07 +/- 1.80E-06
	2	50.17	1.64E+01 +/- 1.57E+00	2.12E+00	1.62E-05 +/- 4.37E-05
	3	60.16	6.14E+02 +/- 8.06E+00	2.00E+00	4.79E-05 +/- 8.23E-05
	4	95.26	3.26E+00 +/- 1.38E+00	1.84E+00	2.54E-04 +/- 8.21E-05
	5	99.26	2.76E+01 +/- 2.31E+00	1.83E+00	2.77E-04 +/- 7.13E-05
	6	104.15	5.09E+01 +/- 1.74E+00	1.82E+00	3.04E-04 +/- 5.78E-05
	7	111.70	1.36E+01 +/- 1.60E+00	1.80E+00	3.41E-04 +/- 3.82E-05
	8	115.91	1.58E+01 +/- 1.70E+00	1.79E+00	3.60E-04 +/- 2.95E-05
M	9	125.92	1.62E+01 +/- 6.42E-01	1.77E+00	3.97E-04 +/- 2.36E-05
m	10	129.98	1.66E+02 +/- 2.88E+00	1.77E+00	4.09E-04 +/- 2.72E-05
	11	144.79	4.24E+00 +/- 1.21E+00	1.73E+00	4.42E-04 +/- 4.48E-05
	12	148.57	4.84E+00 +/- 9.99E-01	1.72E+00	4.48E-04 +/- 4.84E-05
	13	161.63	6.70E+00 +/- 1.16E+00	1.69E+00	4.62E-04 +/- 5.67E-05
	14	172.15	5.82E+00 +/- 1.09E+00	1.67E+00	4.67E-04 +/- 5.93E-05
	15	179.91	1.96E+00 +/- 9.91E-01	1.65E+00	4.67E-04 +/- 5.93E-05
	16	190.14	3.25E+00 +/- 1.12E+00	1.63E+00	4.65E-04 +/- 5.76E-05
	17	196.30	5.33E+00 +/- 8.40E-01	1.62E+00	4.63E-04 +/- 5.58E-05
	18	204.21	1.11E+01 +/- 1.19E+00	1.60E+00	4.58E-04 +/- 5.30E-05
	19	208.68	2.81E+01 +/- 1.50E+00	1.59E+00	4.56E-04 +/- 5.12E-05
	20	244.70	1.40E+00 +/- 6.43E-01	1.53E+00	4.25E-04 +/- 3.51E-05
	21	256.00	4.87E+00 +/- 5.87E-01	1.51E+00	4.14E-04 +/- 3.05E-05

M	22	264.78	1.63E+00	+/- 3.71E-01	1.50E+00	4.06E-04	+/-	2.73E-05
m	23	268.30	2.13E+00	+/- 4.29E-01	1.50E+00	4.03E-04	+/-	2.61E-05
M	24	298.18	3.52E+00	+/- 4.54E-01	1.48E+00	3.74E-04	+/-	1.89E-05
m	25	300.85	1.63E+00	+/- 2.94E-01	1.48E+00	3.72E-04	+/-	1.86E-05
	26	311.90	9.14E+00	+/- 6.64E-01	1.47E+00	3.62E-04	+/-	1.74E-05
M	27	321.63	3.47E+00	+/- 3.99E-01	1.46E+00	3.53E-04	+/-	1.68E-05
m	28	324.33	4.05E+00	+/- 4.28E-01	1.46E+00	3.51E-04	+/-	1.68E-05
M	29	333.49	3.43E+01	+/- 1.01E+00	1.45E+00	3.43E-04	+/-	1.67E-05
m	30	336.51	9.27E+00	+/- 4.34E-01	1.45E+00	3.41E-04	+/-	1.67E-05
	31	341.90	7.49E+00	+/- 9.64E-01	1.45E+00	3.36E-04	+/-	1.68E-05
	32	345.70	2.19E+01	+/- 7.41E-01	1.44E+00	3.33E-04	+/-	1.69E-05
	33	368.77	1.18E+01	+/- 6.90E-01	1.43E+00	3.16E-04	+/-	1.76E-05
	34	375.76	6.05E+01	+/- 1.52E+00	1.42E+00	3.11E-04	+/-	1.79E-05
M	35	380.90	1.53E+01	+/- 6.14E-01	1.42E+00	3.07E-04	+/-	1.81E-05
m	36	383.49	1.40E+01	+/- 5.57E-01	1.42E+00	3.06E-04	+/-	1.82E-05
	37	393.63	3.06E+01	+/- 7.91E-01	1.41E+00	2.99E-04	+/-	1.85E-05
	38	413.70	8.28E+01	+/- 1.40E+00	1.40E+00	2.86E-04	+/-	1.90E-05
	39	423.31	4.63E+00	+/- 3.46E-01	1.39E+00	2.81E-04	+/-	1.91E-05
	40	452.22	1.00E+01	+/- 3.86E-01	1.38E+00	2.65E-04	+/-	1.91E-05
	41	619.70	3.95E-01	+/- 1.12E-01	1.32E+00	2.01E-04	+/-	1.37E-05
	42	646.64	3.56E-01	+/- 1.32E-01	1.31E+00	1.94E-04	+/-	1.27E-05

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
	43	653.46	3.82E-01 +/- 1.17E-01	1.31E+00	1.92E-04 +/- 1.24E-05
M	44	659.86	2.69E-01 +/- 7.19E-02	1.31E+00	1.90E-04 +/- 1.22E-05
m	45	663.30	2.02E+00 +/- 2.17E-01	1.31E+00	1.90E-04 +/- 1.20E-05
	46	689.54	3.04E-01 +/- 8.30E-02	1.30E+00	1.83E-04 +/- 1.11E-05
	47	722.01	9.44E-01 +/- 1.14E-01	1.29E+00	1.77E-04 +/- 1.01E-05
	48	756.84	9.33E-02 +/- 4.66E-02	1.29E+00	1.70E-04 +/- 9.13E-06
	49	770.24	5.90E-01 +/- 9.21E-02	1.28E+00	1.67E-04 +/- 8.81E-06
	50	1001.03	9.66E-03 +/- 9.67E-03	1.24E+00	1.35E-04 +/- 6.17E-06
	51	1085.91	3.99E-02 +/- 3.07E-02	1.23E+00	1.26E-04 +/- 5.69E-06
	52	2236.00	1.00E+02 +/- 1.57E+00	1.16E+00	5.76E-05 +/- 3.29E-05
	53	2295.32	1.61E-01 +/- 4.82E-02	1.16E+00	5.53E-05 +/- 3.45E-05

Segment: 6 Detector: DET01 (# 1) Position: 6

Elapsed Live Time: 104.35 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.124 +/- 0.0143
SE-75	264.65	0.000 +/- 0.0000	0.287 +/- 0.0069
SE-75	279.53	0.000 +/- 0.0000	0.288 +/- 0.0084
SE-75	400.65	0.000 +/- 0.0000	0.344 +/- 0.0113

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.96	8.36E+00 +/- 6.13E-01	3.25E+00	4.57E-07 +/- 2.89E-06
	2	50.18	2.76E+01 +/- 1.90E+00	2.47E+00	2.21E-05 +/- 5.67E-05
	3	60.16	5.60E+02 +/- 7.36E+00	2.32E+00	6.08E-05 +/- 9.94E-05
	4	99.23	3.40E+01 +/- 2.26E+00	2.09E+00	3.05E-04 +/- 7.54E-05
	5	104.24	3.99E+01 +/- 1.65E+00	2.07E+00	3.32E-04 +/- 6.03E-05
	6	111.69	1.58E+01 +/- 1.59E+00	2.05E+00	3.68E-04 +/- 4.00E-05
	7	115.88	1.24E+01 +/- 1.67E+00	2.04E+00	3.86E-04 +/- 3.10E-05
M	8	125.93	1.18E+01 +/- 5.73E-01	2.01E+00	4.21E-04 +/- 2.47E-05
m	9	129.99	1.62E+02 +/- 2.82E+00	2.01E+00	4.33E-04 +/- 2.80E-05
	10	144.81	4.86E+00 +/- 9.89E-01	1.95E+00	4.64E-04 +/- 4.49E-05
	11	148.57	6.45E+00 +/- 9.69E-01	1.93E+00	4.69E-04 +/- 4.84E-05
	12	161.77	3.78E+00 +/- 1.04E+00	1.87E+00	4.81E-04 +/- 5.65E-05
	13	172.14	4.61E+00 +/- 1.03E+00	1.82E+00	4.85E-04 +/- 5.88E-05
	14	179.95	1.97E+00 +/- 1.01E+00	1.79E+00	4.85E-04 +/- 5.88E-05

	15	189.87	2.60E+00	+/-	7.67E-01	1.76E+00	4.82E-04	+/- 5.72E-05
	16	196.44	7.28E+00	+/-	1.05E+00	1.74E+00	4.80E-04	+/- 5.54E-05
	17	204.22	2.78E+01	+/-	1.10E+00	1.71E+00	4.75E-04	+/- 5.26E-05
	18	208.69	7.70E+00	+/-	1.57E+00	1.70E+00	4.72E-04	+/- 5.09E-05
	19	244.70	2.11E+00	+/-	8.85E-01	1.60E+00	4.43E-04	+/- 3.54E-05
	20	256.04	4.10E+00	+/-	6.84E-01	1.57E+00	4.33E-04	+/- 3.09E-05
M	21	264.71	1.45E+00	+/-	3.80E-01	1.55E+00	4.25E-04	+/- 2.79E-05
m	22	268.12	2.14E+00	+/-	4.56E-01	1.55E+00	4.22E-04	+/- 2.67E-05
M	23	298.15	2.22E+00	+/-	4.02E-01	1.53E+00	3.94E-04	+/- 1.97E-05
m	24	300.78	1.24E+00	+/-	2.89E-01	1.53E+00	3.92E-04	+/- 1.93E-05
	25	311.90	1.07E+01	+/-	6.15E-01	1.52E+00	3.82E-04	+/- 1.81E-05
M	26	321.65	3.07E+00	+/-	3.88E-01	1.51E+00	3.74E-04	+/- 1.75E-05
m	27	324.32	3.52E+00	+/-	4.07E-01	1.51E+00	3.72E-04	+/- 1.74E-05
M	28	333.49	3.04E+01	+/-	9.36E-01	1.50E+00	3.65E-04	+/- 1.73E-05
m	29	336.56	7.89E+00	+/-	3.97E-01	1.50E+00	3.62E-04	+/- 1.73E-05
M	30	342.14	1.47E+00	+/-	2.69E-01	1.50E+00	3.58E-04	+/- 1.74E-05
m	31	345.73	2.74E+01	+/-	9.27E-01	1.50E+00	3.55E-04	+/- 1.74E-05
	32	368.85	1.51E+00	+/-	8.12E-01	1.48E+00	3.38E-04	+/- 1.82E-05
	33	375.78	5.37E+01	+/-	1.38E+00	1.48E+00	3.33E-04	+/- 1.84E-05
M	34	380.93	1.37E+01	+/-	5.76E-01	1.47E+00	3.30E-04	+/- 1.86E-05
m	35	383.49	1.15E+01	+/-	4.98E-01	1.47E+00	3.28E-04	+/- 1.87E-05
	36	393.62	2.49E+01	+/-	7.02E-01	1.46E+00	3.22E-04	+/- 1.90E-05
	37	413.70	7.16E+01	+/-	1.24E+00	1.45E+00	3.09E-04	+/- 1.95E-05
	38	423.37	5.09E+00	+/-	3.50E-01	1.45E+00	3.04E-04	+/- 1.96E-05
	39	452.27	8.45E+00	+/-	3.79E-01	1.43E+00	2.88E-04	+/- 1.97E-05
	40	619.50	4.71E-01	+/-	1.09E-01	1.36E+00	2.22E-04	+/- 1.43E-05
	41	646.69	4.58E-01	+/-	9.04E-02	1.36E+00	2.15E-04	+/- 1.32E-05
	42	652.96	2.89E-01	+/-	1.01E-01	1.35E+00	2.13E-04	+/- 1.30E-05

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
M	43	659.69	2.35E-01 +/- 6.15E-02	1.35E+00	2.11E-04 +/- 1.27E-05
m	44	663.12	1.65E+00 +/- 1.98E-01	1.35E+00	2.10E-04 +/- 1.26E-05
	45	722.01	7.33E-01 +/- 9.43E-02	1.33E+00	1.95E-04 +/- 1.05E-05
	46	770.30	2.71E-01 +/- 7.89E-02	1.32E+00	1.85E-04 +/- 9.19E-06
	47	1085.91	4.78E-02 +/- 3.19E-02	1.26E+00	1.34E-04 +/- 5.68E-06
	48	1112.12	2.61E-02 +/- 2.90E-02	1.26E+00	1.31E-04 +/- 5.52E-06
	49	2236.00	1.00E+02 +/- 1.56E+00	1.18E+00	4.34E-05 +/- 2.42E-05

Segment: 7 Detector: DET01 (# 1) Position: 7

Elapsed Live Time: 108.75 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.130 +/- 0.0109
SE-75	264.65	0.000 +/- 0.0000	0.286 +/- 0.0050
SE-75	279.53	0.000 +/- 0.0000	0.286 +/- 0.0066
SE-75	400.65	0.000 +/- 0.0000	0.351 +/- 0.0094

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.97	5.53E+00 +/- 4.87E-01	3.20E+00	4.73E-09 +/- 2.72E-08
	2	50.47	1.27E+01 +/- 1.28E+00	2.43E+00	3.14E-06 +/- 7.26E-06
	3	60.17	2.76E+02 +/- 3.86E+00	2.29E+00	1.60E-05 +/- 2.39E-05
	4	99.24	2.19E+01 +/- 1.63E+00	2.06E+00	2.42E-04 +/- 5.54E-05
	5	104.34	1.41E+01 +/- 1.23E+00	2.04E+00	2.81E-04 +/- 4.74E-05
	6	111.69	1.49E+01 +/- 1.08E+00	2.02E+00	3.35E-04 +/- 3.48E-05
M	7	125.92	7.15E+00 +/- 4.45E-01	1.99E+00	4.24E-04 +/- 2.46E-05
m	8	129.99	8.82E+01 +/- 1.82E+00	1.98E+00	4.45E-04 +/- 2.77E-05
	9	144.82	3.58E+00 +/- 7.87E-01	1.93E+00	5.05E-04 +/- 4.48E-05
	10	148.57	2.69E+00 +/- 7.56E-01	1.91E+00	5.16E-04 +/- 4.85E-05
	11	161.74	2.88E+00 +/- 8.91E-01	1.85E+00	5.43E-04 +/- 5.78E-05
	12	172.10	3.44E+00 +/- 8.68E-01	1.81E+00	5.55E-04 +/- 6.09E-05
	13	179.71	1.27E+00 +/- 6.46E-01	1.78E+00	5.58E-04 +/- 6.12E-05
	14	189.75	1.89E+00 +/- 7.81E-01	1.75E+00	5.58E-04 +/- 5.98E-05
	15	196.45	2.10E+00 +/- 8.28E-01	1.73E+00	5.56E-04 +/- 5.79E-05
	16	208.69	2.08E+01 +/- 9.08E-01	1.69E+00	5.47E-04 +/- 5.32E-05
	17	225.77	1.02E+00 +/- 5.45E-01	1.64E+00	5.29E-04 +/- 4.53E-05
	18	244.70	8.84E-01 +/- 5.47E-01	1.60E+00	5.05E-04 +/- 3.65E-05

	19	256.15	2.58E+00	+/- 6.04E-01	1.57E+00	4.90E-04	+/-	3.18E-05
M	20	298.03	1.11E+00	+/- 2.69E-01	1.53E+00	4.34E-04	+/-	2.02E-05
m	21	300.77	1.54E+00	+/- 3.26E-01	1.53E+00	4.30E-04	+/-	1.98E-05
	22	311.90	8.74E+00	+/- 4.98E-01	1.52E+00	4.17E-04	+/-	1.86E-05
M	23	321.62	1.32E+00	+/- 2.77E-01	1.51E+00	4.05E-04	+/-	1.79E-05
m	24	324.59	1.63E+00	+/- 3.15E-01	1.51E+00	4.01E-04	+/-	1.78E-05
M	25	333.52	1.43E+01	+/- 6.33E-01	1.50E+00	3.91E-04	+/-	1.76E-05
m	26	336.58	3.87E+00	+/- 2.85E-01	1.50E+00	3.88E-04	+/-	1.76E-05
	27	345.71	1.27E+01	+/- 4.91E-01	1.49E+00	3.78E-04	+/-	1.76E-05
	28	368.83	4.92E+00	+/- 4.91E-01	1.47E+00	3.55E-04	+/-	1.81E-05
	29	375.78	2.68E+01	+/- 8.64E-01	1.47E+00	3.48E-04	+/-	1.82E-05
M	30	380.95	5.81E+00	+/- 3.75E-01	1.46E+00	3.44E-04	+/-	1.83E-05
m	31	383.52	5.65E+00	+/- 3.55E-01	1.46E+00	3.41E-04	+/-	1.84E-05
	32	393.65	1.21E+01	+/- 4.54E-01	1.46E+00	3.33E-04	+/-	1.86E-05
	33	413.70	3.43E+01	+/- 7.20E-01	1.44E+00	3.17E-04	+/-	1.88E-05
	34	423.30	2.29E+00	+/- 2.20E-01	1.44E+00	3.10E-04	+/-	1.88E-05
	35	452.20	4.03E+00	+/- 2.30E-01	1.42E+00	2.90E-04	+/-	1.86E-05
	36	640.72	1.72E-01	+/- 6.82E-02	1.35E+00	2.09E-04	+/-	1.25E-05
	37	646.87	2.18E-01	+/- 7.53E-02	1.35E+00	2.07E-04	+/-	1.23E-05
M	38	659.79	1.79E-01	+/- 5.56E-02	1.34E+00	2.04E-04	+/-	1.18E-05
m	39	663.24	8.05E-01	+/- 1.33E-01	1.34E+00	2.03E-04	+/-	1.17E-05
	40	722.01	5.85E-01	+/- 8.43E-02	1.33E+00	1.89E-04	+/-	9.99E-06
	41	770.29	1.58E-01	+/- 4.97E-02	1.31E+00	1.79E-04	+/-	8.89E-06
	42	2236.00	1.00E+02	+/- 1.53E+00	1.18E+00	5.07E-05	+/-	2.69E-05

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)

Segment: 8 Detector: DET01 (# 1) Position: 8

Elapsed Live Time: 109.59 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.136 +/- 0.0120
SE-75	264.65	0.000 +/- 0.0000	0.311 +/- 0.0053
SE-75	279.53	0.000 +/- 0.0000	0.326 +/- 0.0071
SE-75	400.65	0.000 +/- 0.0000	0.398 +/- 0.0102

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.93	3.35E+00 +/- 3.85E-01	3.13E+00	7.49E-06 +/- 7.32E-06
	2	50.12	9.23E+00 +/- 1.22E+00	2.40E+00	5.98E-05 +/- 2.94E-05
	3	60.17	2.02E+02 +/- 2.99E+00	2.25E+00	1.10E-04 +/- 3.84E-05
	4	99.24	1.51E+01 +/- 1.32E+00	2.03E+00	3.24E-04 +/- 3.31E-05
	5	104.17	1.25E+01 +/- 1.05E+00	2.01E+00	3.46E-04 +/- 3.07E-05
	6	111.68	8.86E+00 +/- 9.80E-01	1.99E+00	3.75E-04 +/- 2.73E-05
M	7	125.95	6.37E+00 +/- 4.22E-01	1.96E+00	4.19E-04 +/- 2.31E-05
m	8	130.01	6.47E+01 +/- 1.51E+00	1.95E+00	4.29E-04 +/- 2.26E-05
	9	144.82	1.99E+00 +/- 7.62E-01	1.90E+00	4.57E-04 +/- 2.25E-05
	10	148.57	2.62E+00 +/- 7.30E-01	1.88E+00	4.62E-04 +/- 2.28E-05
	11	161.64	2.92E+00 +/- 8.06E-01	1.82E+00	4.75E-04 +/- 2.42E-05
	12	171.80	1.40E+00 +/- 7.82E-01	1.78E+00	4.80E-04 +/- 2.51E-05
	13	189.86	1.24E+00 +/- 7.41E-01	1.71E+00	4.81E-04 +/- 2.61E-05
	14	196.39	2.61E+00 +/- 8.07E-01	1.69E+00	4.79E-04 +/- 2.62E-05
	15	204.26	4.65E+00 +/- 8.96E-01	1.67E+00	4.76E-04 +/- 2.61E-05
	16	208.71	1.06E+01 +/- 9.96E-01	1.65E+00	4.74E-04 +/- 2.60E-05
	17	244.70	1.00E+00 +/- 4.65E-01	1.55E+00	4.49E-04 +/- 2.38E-05
	18	256.07	2.89E+00 +/- 7.18E-01	1.53E+00	4.39E-04 +/- 2.28E-05
	19	268.08	1.24E+00 +/- 5.96E-01	1.50E+00	4.29E-04 +/- 2.17E-05
M	20	298.13	1.42E+00 +/- 2.92E-01	1.47E+00	4.01E-04 +/- 1.90E-05
m	21	300.84	1.46E+00 +/- 2.95E-01	1.47E+00	3.98E-04 +/- 1.88E-05
	22	311.90	1.09E+01 +/- 5.33E-01	1.46E+00	3.88E-04 +/- 1.78E-05
M	23	321.51	1.31E+00 +/- 2.88E-01	1.45E+00	3.80E-04 +/- 1.71E-05
m	24	324.14	1.84E+00 +/- 3.41E-01	1.45E+00	3.77E-04 +/- 1.69E-05
M	25	333.50	1.44E+01 +/- 6.49E-01	1.44E+00	3.69E-04 +/- 1.62E-05

m	26	336.52	4.06E+00	+/-	2.95E-01	1.44E+00	3.66E-04	+/-	1.60E-05
	27	345.72	1.18E+01	+/-	5.51E-01	1.43E+00	3.59E-04	+/-	1.54E-05
	28	368.74	4.04E+00	+/-	4.86E-01	1.41E+00	3.40E-04	+/-	1.42E-05
	29	375.78	2.52E+01	+/-	8.89E-01	1.41E+00	3.34E-04	+/-	1.38E-05
M	30	380.93	5.97E+00	+/-	3.81E-01	1.40E+00	3.30E-04	+/-	1.36E-05
m	31	383.53	5.17E+00	+/-	3.31E-01	1.40E+00	3.28E-04	+/-	1.35E-05
	32	393.64	1.19E+01	+/-	4.65E-01	1.40E+00	3.21E-04	+/-	1.31E-05
	33	413.70	3.32E+01	+/-	7.17E-01	1.38E+00	3.06E-04	+/-	1.25E-05
	34	423.31	1.76E+00	+/-	2.22E-01	1.38E+00	3.00E-04	+/-	1.22E-05
	35	452.25	3.73E+00	+/-	2.42E-01	1.37E+00	2.82E-04	+/-	1.16E-05
	36	646.89	1.46E-01	+/-	6.37E-02	1.30E+00	1.98E-04	+/-	9.58E-06
	37	652.82	3.19E-01	+/-	8.64E-02	1.30E+00	1.96E-04	+/-	9.51E-06
M	38	659.39	1.73E-01	+/-	5.48E-02	1.30E+00	1.94E-04	+/-	9.44E-06
m	39	663.26	1.07E+00	+/-	1.55E-01	1.30E+00	1.93E-04	+/-	9.40E-06
	40	689.63	6.43E-02	+/-	3.80E-02	1.29E+00	1.86E-04	+/-	9.10E-06
	41	722.01	4.31E-01	+/-	9.18E-02	1.28E+00	1.78E-04	+/-	8.71E-06
	42	867.39	5.81E-02	+/-	3.52E-02	1.25E+00	1.51E-04	+/-	6.88E-06

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	1001.03	9.19E-03 +/- 9.19E-03	1.23E+00	1.35E-04 +/- 5.36E-06
44	1112.12	4.37E-02 +/- 2.70E-02	1.22E+00	1.26E-04 +/- 4.65E-06
45	2236.00	1.00E+02 +/- 1.53E+00	1.16E+00	1.19E-04 +/- 2.92E-05

Segment: 9 Detector: DET01 (# 1) Position: 9

Elapsed Live Time: 107.94 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.118 +/- 0.0112
SE-75	264.65	0.000 +/- 0.0000	0.240 +/- 0.0058
SE-75	279.53	0.000 +/- 0.0000	0.244 +/- 0.0071
SE-75	400.65	0.000 +/- 0.0000	0.294 +/- 0.0099

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.99	7.41E+00 +/- 5.46E-01	3.32E+00	6.02E-09 +/- 3.63E-08
	2	50.15	5.30E+00 +/- 1.06E+00	2.52E+00	3.15E-06 +/- 7.74E-06
	3	60.17	3.28E+02 +/- 4.48E+00	2.36E+00	1.65E-05 +/- 2.58E-05
	4	99.33	3.73E+01 +/- 1.33E+00	2.12E+00	2.35E-04 +/- 5.58E-05
	5	103.97	2.75E+01 +/- 1.12E+00	2.10E+00	2.69E-04 +/- 4.82E-05
	6	111.69	6.71E+00 +/- 1.18E+00	2.08E+00	3.22E-04 +/- 3.46E-05
	7	116.06	5.73E+00 +/- 1.23E+00	2.07E+00	3.49E-04 +/- 2.81E-05
M	8	125.95	8.61E+00 +/- 4.81E-01	2.05E+00	4.05E-04 +/- 2.41E-05
m	9	129.99	7.76E+01 +/- 1.71E+00	2.04E+00	4.24E-04 +/- 2.73E-05
	10	144.76	1.29E+00 +/- 8.42E-01	1.99E+00	4.78E-04 +/- 4.42E-05
	11	148.57	3.42E+00 +/- 8.14E-01	1.97E+00	4.88E-04 +/- 4.79E-05
	12	161.69	4.13E+00 +/- 9.02E-01	1.92E+00	5.12E-04 +/- 5.68E-05
	13	172.06	5.18E+00 +/- 9.59E-01	1.89E+00	5.22E-04 +/- 5.97E-05
	14	179.73	2.16E+00 +/- 8.19E-01	1.86E+00	5.24E-04 +/- 5.99E-05
	15	189.98	2.54E+00 +/- 8.60E-01	1.83E+00	5.23E-04 +/- 5.82E-05
	16	196.27	2.96E+00 +/- 9.00E-01	1.81E+00	5.20E-04 +/- 5.63E-05
	17	208.69	2.72E+01 +/- 1.04E+00	1.77E+00	5.11E-04 +/- 5.15E-05
	18	256.12	2.22E+00 +/- 5.19E-01	1.66E+00	4.54E-04 +/- 3.03E-05
M	19	298.19	1.54E+00 +/- 2.90E-01	1.61E+00	3.99E-04 +/- 1.92E-05
m	20	300.79	2.27E+00 +/- 3.64E-01	1.61E+00	3.96E-04 +/- 1.89E-05
	21	311.90	1.52E+01 +/- 7.39E-01	1.60E+00	3.83E-04 +/- 1.78E-05
M	22	321.53	1.60E+00 +/- 3.16E-01	1.59E+00	3.72E-04 +/- 1.73E-05

m	23	324.43	1.62E+00	+/- 3.21E-01	1.59E+00	3.69E-04	+/-	1.72E-05
M	24	333.51	1.96E+01	+/- 7.45E-01	1.58E+00	3.59E-04	+/-	1.71E-05
m	25	336.52	6.06E+00	+/- 3.54E-01	1.58E+00	3.56E-04	+/-	1.71E-05
	26	345.73	1.73E+01	+/- 6.60E-01	1.58E+00	3.46E-04	+/-	1.72E-05
	27	368.83	7.07E+00	+/- 5.66E-01	1.56E+00	3.24E-04	+/-	1.77E-05
	28	375.77	3.90E+01	+/- 1.13E+00	1.55E+00	3.18E-04	+/-	1.78E-05
M	29	380.91	8.58E+00	+/- 4.54E-01	1.55E+00	3.14E-04	+/-	1.79E-05
m	30	383.49	8.39E+00	+/- 4.32E-01	1.55E+00	3.12E-04	+/-	1.80E-05
	31	393.67	1.74E+01	+/- 5.62E-01	1.54E+00	3.03E-04	+/-	1.81E-05
	32	413.70	5.04E+01	+/- 9.56E-01	1.53E+00	2.88E-04	+/-	1.83E-05
	33	423.32	2.98E+00	+/- 2.44E-01	1.52E+00	2.82E-04	+/-	1.83E-05
	34	452.26	6.05E+00	+/- 2.80E-01	1.51E+00	2.63E-04	+/-	1.81E-05
	35	619.60	4.37E-01	+/- 8.42E-02	1.42E+00	1.95E-04	+/-	1.26E-05
	36	641.47	2.09E-01	+/- 7.80E-02	1.42E+00	1.89E-04	+/-	1.19E-05
M	37	659.62	1.49E-01	+/- 5.72E-02	1.41E+00	1.85E-04	+/-	1.13E-05
m	38	663.35	1.55E+00	+/- 1.90E-01	1.41E+00	1.84E-04	+/-	1.11E-05
	39	722.01	8.03E-01	+/- 1.07E-01	1.39E+00	1.72E-04	+/-	9.44E-06
	40	770.19	3.44E-01	+/- 6.87E-02	1.37E+00	1.63E-04	+/-	8.37E-06
	41	1001.03	9.25E-03	+/- 9.25E-03	1.32E+00	1.35E-04	+/-	6.06E-06
	42	1408.01	9.25E-03	+/- 9.25E-03	1.26E+00	1.05E-04	+/-	6.90E-06

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	2236.00	1.00E+02 +/- 1.54E+00	1.21E+00	6.12E-05 +/- 3.31E-05

Segment: 10 Detector: DET01 (# 1) Position: 10

Elapsed Live Time: 108.83 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.174 +/- 0.0110
SE-75	264.65	0.000 +/- 0.0000	0.270 +/- 0.0048
SE-75	279.53	0.000 +/- 0.0000	0.275 +/- 0.0062
SE-75	400.65	0.000 +/- 0.0000	0.338 +/- 0.0091

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.07	3.74E+00 +/- 3.86E-01	2.80E+00	1.67E-05 +/- 1.65E-05
	2	50.05	7.94E+00 +/- 1.16E+00	2.19E+00	8.42E-05 +/- 4.22E-05
	3	60.17	3.34E+02 +/- 4.55E+00	2.07E+00	1.37E-04 +/- 4.88E-05
	4	99.34	3.60E+01 +/- 1.30E+00	1.88E+00	3.30E-04 +/- 3.41E-05
	5	103.99	2.81E+01 +/- 1.10E+00	1.87E+00	3.47E-04 +/- 3.13E-05
	6	111.72	1.06E+01 +/- 1.03E+00	1.85E+00	3.72E-04 +/- 2.73E-05
M	7	125.98	7.36E+00 +/- 4.50E-01	1.82E+00	4.08E-04 +/- 2.27E-05
m	8	129.99	6.66E+01 +/- 1.56E+00	1.82E+00	4.16E-04 +/- 2.21E-05
M	9	144.88	3.85E+00 +/- 4.34E-01	1.79E+00	4.39E-04 +/- 2.19E-05
m	10	146.88	3.53E+00 +/- 4.23E-01	1.78E+00	4.41E-04 +/- 2.20E-05
m	11	149.24	4.84E+00 +/- 4.92E-01	1.78E+00	4.44E-04 +/- 2.22E-05
	12	172.15	2.90E+00 +/- 7.89E-01	1.73E+00	4.59E-04 +/- 2.43E-05
	13	190.09	1.50E+00 +/- 7.45E-01	1.69E+00	4.60E-04 +/- 2.52E-05
	14	196.36	2.76E+00 +/- 6.89E-01	1.68E+00	4.59E-04 +/- 2.52E-05
	15	208.70	2.10E+01 +/- 8.48E-01	1.66E+00	4.56E-04 +/- 2.51E-05
	16	256.06	2.57E+00 +/- 5.74E-01	1.59E+00	4.29E-04 +/- 2.23E-05
M	17	298.23	1.90E+00 +/- 3.12E-01	1.55E+00	3.97E-04 +/- 1.87E-05
m	18	300.77	1.67E+00 +/- 2.91E-01	1.55E+00	3.95E-04 +/- 1.85E-05
	19	311.90	9.37E+00 +/- 5.51E-01	1.54E+00	3.87E-04 +/- 1.76E-05
M	20	321.63	1.37E+00 +/- 2.97E-01	1.53E+00	3.79E-04 +/- 1.69E-05
m	21	324.48	1.83E+00 +/- 3.37E-01	1.53E+00	3.77E-04 +/- 1.67E-05
M	22	333.47	1.59E+01 +/- 6.89E-01	1.52E+00	3.71E-04 +/- 1.62E-05
m	23	336.44	3.52E+00 +/- 2.95E-01	1.52E+00	3.68E-04 +/- 1.60E-05
	24	345.72	1.47E+01 +/- 5.21E-01	1.51E+00	3.61E-04 +/- 1.54E-05

	25	368.81	5.24E+00	+/- 5.17E-01	1.49E+00	3.45E-04	+/-	1.43E-05
	26	375.78	2.93E+01	+/- 9.79E-01	1.49E+00	3.40E-04	+/-	1.40E-05
M	27	380.95	7.27E+00	+/- 4.20E-01	1.48E+00	3.37E-04	+/-	1.38E-05
m	28	383.54	6.28E+00	+/- 3.63E-01	1.48E+00	3.35E-04	+/-	1.37E-05
	29	393.63	1.43E+01	+/- 5.00E-01	1.47E+00	3.28E-04	+/-	1.34E-05
	30	413.70	3.91E+01	+/- 8.02E-01	1.46E+00	3.15E-04	+/-	1.29E-05
	31	423.34	2.77E+00	+/- 2.23E-01	1.46E+00	3.09E-04	+/-	1.27E-05
	32	452.27	4.65E+00	+/- 2.71E-01	1.44E+00	2.92E-04	+/-	1.22E-05
	33	619.47	3.23E-01	+/- 1.00E-01	1.37E+00	2.19E-04	+/-	1.08E-05
	34	646.66	1.69E-01	+/- 8.61E-02	1.36E+00	2.10E-04	+/-	1.05E-05
	35	653.31	1.58E-01	+/- 1.09E-01	1.36E+00	2.08E-04	+/-	1.04E-05
	36	662.42	1.41E+00	+/- 1.70E-01	1.36E+00	2.06E-04	+/-	1.03E-05
	37	722.01	7.00E-01	+/- 9.81E-02	1.34E+00	1.89E-04	+/-	9.55E-06
	38	770.44	2.02E-01	+/- 6.92E-02	1.33E+00	1.78E-04	+/-	8.88E-06
	39	1001.03	4.41E-02	+/- 3.55E-02	1.28E+00	1.41E-04	+/-	5.67E-06
	40	2236.00	1.00E+02	+/- 1.54E+00	1.19E+00	9.04E-05	+/-	2.29E-05

Segment: 11 Detector: DET01 (# 1) Position: 11

Elapsed Live Time: 111.92 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.067 +/- 0.0071
SE-75	264.65	0.000 +/- 0.0000	0.133 +/- 0.0028
SE-75	279.53	0.000 +/- 0.0000	0.134 +/- 0.0040
SE-75	400.65	0.000 +/- 0.0000	0.169 +/- 0.0057

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)		Correction Factor	Original Efficiency		
	1	31.99	1.63E+00	+/- 2.71E-01	4.10E+00	1.34E-03	+/-	8.66E-03
	2	50.36	4.05E+00	+/- 8.03E-01	3.03E+00	5.96E-04	+/-	1.56E-03
	3	60.18	1.21E+02	+/- 1.98E+00	2.82E+00	5.03E-04	+/-	8.46E-04
	4	99.33	1.35E+01	+/- 9.14E-01	2.49E+00	4.09E-04	+/-	1.03E-04
	5	111.66	3.69E+00	+/- 7.35E-01	2.44E+00	4.03E-04	+/-	4.48E-05
	6	115.78	2.20E+00	+/- 8.80E-01	2.42E+00	4.02E-04	+/-	3.31E-05
M	7	125.91	2.27E+00	+/- 2.96E-01	2.39E+00	4.00E-04	+/-	2.37E-05
m	8	130.01	2.26E+01	+/- 8.56E-01	2.38E+00	3.99E-04	+/-	2.64E-05
	9	144.72	1.32E+00	+/- 5.45E-01	2.32E+00	3.98E-04	+/-	3.97E-05
	10	189.99	1.58E+00	+/- 4.25E-01	2.16E+00	3.92E-04	+/-	4.81E-05
	11	196.21	1.11E+00	+/- 4.75E-01	2.14E+00	3.91E-04	+/-	4.68E-05
	12	208.71	5.13E+00	+/- 5.51E-01	2.10E+00	3.88E-04	+/-	4.34E-05
	13	300.10	1.13E+00	+/- 4.04E-01	1.92E+00	3.57E-04	+/-	1.80E-05
	14	311.90	2.33E+00	+/- 3.18E-01	1.91E+00	3.53E-04	+/-	1.69E-05

M 15	333.49	4.41E+00 +/-	3.68E-01	1.89E+00	3.43E-04 +/-	1.63E-05
m 16	336.58	1.29E+00 +/-	1.73E-01	1.88E+00	3.42E-04 +/-	1.63E-05
17	345.82	3.64E+00 +/-	3.40E-01	1.88E+00	3.38E-04 +/-	1.66E-05
18	368.69	1.32E+00 +/-	3.09E-01	1.85E+00	3.28E-04 +/-	1.75E-05
19	375.77	8.06E+00 +/-	4.78E-01	1.85E+00	3.25E-04 +/-	1.79E-05
M 20	380.92	2.30E+00 +/-	2.33E-01	1.84E+00	3.23E-04 +/-	1.81E-05
m 21	383.42	1.75E+00 +/-	1.85E-01	1.84E+00	3.21E-04 +/-	1.82E-05
22	393.68	4.24E+00 +/-	2.78E-01	1.83E+00	3.17E-04 +/-	1.87E-05
23	400.66	2.11E-01 +/-	1.43E-01	1.82E+00	3.14E-04 +/-	1.90E-05
24	413.70	1.10E+01 +/-	3.69E-01	1.81E+00	3.08E-04 +/-	1.94E-05
25	423.28	8.81E-01 +/-	1.25E-01	1.80E+00	3.04E-04 +/-	1.97E-05
26	452.31	1.22E+00 +/-	1.44E-01	1.77E+00	2.91E-04 +/-	2.00E-05
27	662.42	4.02E-01 +/-	7.52E-02	1.62E+00	2.15E-04 +/-	1.30E-05
28	722.01	1.70E-01 +/-	5.75E-02	1.59E+00	1.97E-04 +/-	1.08E-05
29	964.13	2.38E-02 +/-	2.19E-02	1.49E+00	1.45E-04 +/-	6.48E-06
30	1408.01	2.65E-02 +/-	1.53E-02	1.39E+00	9.35E-05 +/-	6.52E-06
31	2236.00	1.00E+02 +/-	1.51E+00	1.32E+00	5.79E-05 +/-	3.30E-05

Segment: 12 Detector: DET01 (# 1) Position: 12

Elapsed Live Time: 113.44 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.244 +/- 0.0114
SE-75	264.65	0.000 +/- 0.0000	0.337 +/- 0.0055
SE-75	279.53	0.000 +/- 0.0000	0.353 +/- 0.0070
SE-75	400.65	0.000 +/- 0.0000	0.385 +/- 0.0093

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.19	1.31E+00 +/- 2.28E-01	2.38E+00	2.60E-09 +/- 1.59E-08
2	50.20	1.22E+00 +/- 5.69E-01	1.92E+00	2.16E-06 +/- 5.42E-06
3	60.16	3.15E+01 +/- 8.59E-01	1.83E+00	1.30E-05 +/- 2.08E-05
4	104.23	9.45E-01 +/- 4.89E-01	1.68E+00	2.70E-04 +/- 4.84E-05
5	111.64	9.85E-01 +/- 5.05E-01	1.66E+00	3.25E-04 +/- 3.52E-05
6	129.29	2.81E+00 +/- 4.16E-01	1.64E+00	4.34E-04 +/- 2.74E-05
7	264.66	5.27E-01 +/- 2.62E-01	1.47E+00	4.54E-04 +/- 2.86E-05
8	311.90	3.18E-01 +/- 1.94E-01	1.44E+00	3.88E-04 +/- 1.81E-05
9	375.72	7.28E-01 +/- 1.63E-01	1.41E+00	3.19E-04 +/- 1.78E-05
10	394.01	2.52E-01 +/- 9.72E-02	1.41E+00	3.03E-04 +/- 1.82E-05
11	413.70	7.59E-01 +/- 1.06E-01	1.40E+00	2.87E-04 +/- 1.84E-05
12	511.64	1.75E-01 +/- 4.69E-02	1.36E+00	2.30E-04 +/- 1.67E-05
13	722.01	2.39E-02 +/- 2.12E-02	1.29E+00	1.70E-04 +/- 9.57E-06

14	1001.03	6.31E-02	+/- 4.20E-02	1.24E+00	1.35E-04	+/- 6.07E-06
15	1112.12	5.54E-02	+/- 2.87E-02	1.23E+00	1.27E-04	+/- 5.46E-06
16	2236.00	1.00E+02	+/- 1.50E+00	1.16E+00	6.48E-05	+/- 3.54E-05

Segment: 13 Detector: DET01 (# 1) Position: 13

Elapsed Live Time: 113.70 sec Elapsed Real Time: 115.00 sec

T R A N S M I S S I O N R E S U L T S

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.314 +/- 0.0110
SE-75	264.65	0.000 +/- 0.0000	0.390 +/- 0.0062
SE-75	279.53	0.000 +/- 0.0000	0.394 +/- 0.0076
SE-75	400.65	0.000 +/- 0.0000	0.435 +/- 0.0102

P E A K A N A L Y S I S R E S U L T S

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.08	1.29E+00 +/- 1.89E-01	2.10E+00	1.77E-08 +/- 1.15E-07
2	60.18	2.12E+01 +/- 7.20E-01	1.66E+00	2.29E-05 +/- 3.88E-05
3	99.24	2.32E+00 +/- 5.37E-01	1.55E+00	2.49E-04 +/- 6.33E-05
4	111.64	1.31E+00 +/- 4.76E-01	1.53E+00	3.29E-04 +/- 3.67E-05
5	129.29	4.60E+00 +/- 4.16E-01	1.51E+00	4.16E-04 +/- 2.70E-05
6	185.71	6.83E-01 +/- 3.09E-01	1.46E+00	5.01E-04 +/- 6.14E-05
7	333.45	2.31E-01 +/- 1.28E-01	1.37E+00	3.53E-04 +/- 1.73E-05
8	345.89	4.50E-01 +/- 1.83E-01	1.37E+00	3.41E-04 +/- 1.75E-05
9	375.76	6.81E-01 +/- 1.59E-01	1.36E+00	3.16E-04 +/- 1.85E-05
10	380.99	4.28E-01 +/- 9.67E-02	1.36E+00	3.12E-04 +/- 1.87E-05
11	393.62	3.97E-01 +/- 9.63E-02	1.35E+00	3.03E-04 +/- 1.90E-05
12	413.70	1.15E+00 +/- 1.18E-01	1.34E+00	2.89E-04 +/- 1.94E-05
13	778.90	3.47E-02 +/- 1.74E-02	1.24E+00	1.70E-04 +/- 8.63E-06
14	1085.91	4.30E-02 +/- 2.47E-02	1.20E+00	1.32E-04 +/- 5.78E-06
15	1112.12	2.55E-02 +/- 2.02E-02	1.20E+00	1.30E-04 +/- 5.64E-06
16	1408.01	2.60E-02 +/- 1.50E-02	1.17E+00	1.05E-04 +/- 7.00E-06
17	2236.00	1.00E+02 +/- 1.50E+00	1.14E+00	5.36E-05 +/- 3.03E-05

Segment: 14 Detector: DET01 (# 1) Position: 14

Elapsed Live Time: 113.36 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.206 +/- 0.0105
SE-75	264.65	0.000 +/- 0.0000	0.309 +/- 0.0051
SE-75	279.53	0.000 +/- 0.0000	0.309 +/- 0.0063
SE-75	400.65	0.000 +/- 0.0000	0.374 +/- 0.0091

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.90	1.06E+00 +/- 2.06E-01	2.60E+00	3.37E-06 +/- 2.05E-05
	2	50.08	3.75E+00 +/- 6.56E-01	2.06E+00	4.65E-05 +/- 1.15E-04
	3	60.19	5.13E+01 +/- 1.07E+00	1.95E+00	9.60E-05 +/- 1.50E-04
	4	95.30	1.12E+00 +/- 6.32E-01	1.79E+00	2.99E-04 +/- 8.90E-05
	5	99.21	5.12E+00 +/- 7.80E-01	1.78E+00	3.18E-04 +/- 7.59E-05
	6	104.50	2.88E+00 +/- 5.73E-01	1.77E+00	3.41E-04 +/- 5.90E-05
	7	111.70	3.53E+00 +/- 5.25E-01	1.76E+00	3.69E-04 +/- 3.93E-05
M	8	125.88	8.95E-01 +/- 1.85E-01	1.73E+00	4.12E-04 +/- 2.40E-05
m	9	129.99	1.96E+01 +/- 7.30E-01	1.73E+00	4.22E-04 +/- 2.68E-05
	10	196.52	4.89E-01 +/- 2.82E-01	1.61E+00	4.60E-04 +/- 5.09E-05
	11	208.69	2.62E+00 +/- 3.43E-01	1.59E+00	4.54E-04 +/- 4.70E-05
	12	244.70	4.01E-01 +/- 2.13E-01	1.54E+00	4.28E-04 +/- 3.30E-05
	13	311.90	2.87E-01 +/- 1.47E-01	1.48E+00	3.71E-04 +/- 1.72E-05
M	14	333.57	1.66E+00 +/- 1.99E-01	1.47E+00	3.53E-04 +/- 1.64E-05
m	15	336.71	3.93E-01 +/- 8.58E-02	1.46E+00	3.51E-04 +/- 1.64E-05
M	16	342.35	1.71E-01 +/- 5.22E-02	1.46E+00	3.47E-04 +/- 1.64E-05
m	17	345.84	1.60E+00 +/- 1.46E-01	1.46E+00	3.44E-04 +/- 1.65E-05
	18	368.77	3.36E-01 +/- 1.04E-01	1.44E+00	3.27E-04 +/- 1.70E-05
	19	375.80	2.74E+00 +/- 2.68E-01	1.44E+00	3.22E-04 +/- 1.72E-05
M	20	380.87	7.01E-01 +/- 1.17E-01	1.43E+00	3.19E-04 +/- 1.74E-05
m	21	383.45	6.04E-01 +/- 1.04E-01	1.43E+00	3.17E-04 +/- 1.74E-05
	22	393.75	1.41E+00 +/- 1.39E-01	1.42E+00	3.10E-04 +/- 1.77E-05
	23	413.70	3.88E+00 +/- 2.02E-01	1.41E+00	2.98E-04 +/- 1.80E-05
	24	423.45	2.39E-01 +/- 6.92E-02	1.41E+00	2.92E-04 +/- 1.81E-05
	25	452.27	4.62E-01 +/- 9.56E-02	1.40E+00	2.76E-04 +/- 1.81E-05
	26	778.90	2.62E-02 +/- 1.51E-02	1.29E+00	1.70E-04 +/- 8.37E-06
	27	1408.01	2.62E-02 +/- 1.51E-02	1.21E+00	1.05E-04 +/- 7.02E-06
	28	2236.00	1.00E+02 +/- 1.50E+00	1.17E+00	7.64E-05 +/- 4.15E-05

Segment: 15 Detector: DET01 (# 1) Position: 15

Elapsed Live Time: 113.36 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.222 +/- 0.0091
SE-75	264.65	0.000 +/- 0.0000	0.315 +/- 0.0052
SE-75	279.53	0.000 +/- 0.0000	0.327 +/- 0.0066
SE-75	400.65	0.000 +/- 0.0000	0.379 +/- 0.0092

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.92	3.06E-01 +/- 1.44E-01	2.51E+00	1.09E-09 +/- 6.93E-09
	2	60.19	6.13E+01 +/- 1.18E+00	1.90E+00	1.23E-05 +/- 2.03E-05
	3	99.23	9.46E+00 +/- 7.71E-01	1.74E+00	2.32E-04 +/- 5.77E-05
	4	104.50	3.16E+00 +/- 5.98E-01	1.73E+00	2.72E-04 +/- 4.87E-05
	5	111.77	3.36E+00 +/- 5.93E-01	1.72E+00	3.23E-04 +/- 3.49E-05
	6	129.29	2.31E+01 +/- 6.09E-01	1.69E+00	4.21E-04 +/- 2.67E-05
	7	144.90	6.82E-01 +/- 2.27E-01	1.66E+00	4.74E-04 +/- 4.63E-05
	8	161.54	7.01E-01 +/- 2.59E-01	1.63E+00	5.00E-04 +/- 5.92E-05
	9	171.87	5.85E-01 +/- 2.83E-01	1.62E+00	5.05E-04 +/- 6.19E-05
	10	196.64	4.42E-01 +/- 2.26E-01	1.58E+00	4.93E-04 +/- 5.75E-05
	11	208.69	2.50E+00 +/- 3.16E-01	1.57E+00	4.81E-04 +/- 5.23E-05
	12	300.10	3.91E-01 +/- 1.84E-01	1.47E+00	3.60E-04 +/- 1.79E-05
M	13	333.58	2.04E+00 +/- 2.19E-01	1.45E+00	3.24E-04 +/- 1.53E-05
m	14	336.53	3.89E-01 +/- 8.43E-02	1.45E+00	3.21E-04 +/- 1.53E-05
	15	345.68	1.62E+00 +/- 1.68E-01	1.44E+00	3.13E-04 +/- 1.53E-05
	16	368.52	7.80E-01 +/- 1.55E-01	1.43E+00	2.93E-04 +/- 1.57E-05
	17	375.86	4.68E+00 +/- 2.66E-01	1.43E+00	2.88E-04 +/- 1.59E-05
M	18	381.01	3.20E-01 +/- 9.24E-02	1.42E+00	2.84E-04 +/- 1.60E-05
m	19	383.61	5.63E-01 +/- 1.14E-01	1.42E+00	2.82E-04 +/- 1.60E-05
	20	393.68	1.78E+00 +/- 1.50E-01	1.42E+00	2.75E-04 +/- 1.62E-05
	21	413.70	4.51E+00 +/- 2.22E-01	1.41E+00	2.62E-04 +/- 1.65E-05
	22	423.35	1.97E-01 +/- 7.65E-02	1.40E+00	2.56E-04 +/- 1.66E-05
	23	452.37	3.77E-01 +/- 9.07E-02	1.39E+00	2.40E-04 +/- 1.65E-05
	24	662.42	1.13E-01 +/- 3.82E-02	1.32E+00	1.75E-04 +/- 1.08E-05
	25	722.01	3.26E-02 +/- 2.55E-02	1.30E+00	1.64E-04 +/- 9.17E-06
	26	2236.00	1.00E+02 +/- 1.50E+00	1.17E+00	3.18E-05 +/- 1.80E-05

Segment: 16 Detector: DET01 (# 1) Position: 16

Elapsed Live Time: 113.89 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.524 +/- 0.0174
SE-75	264.65	0.000 +/- 0.0000	0.600 +/- 0.0130
SE-75	279.53	0.000 +/- 0.0000	0.601 +/- 0.0140
SE-75	400.65	0.000 +/- 0.0000	0.627 +/- 0.0164

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.28	8.01E-01 +/- 1.68E-01	1.55E+00	4.20E-06 +/- 4.98E-06
2	60.18	2.18E+01 +/- 6.51E-01	1.34E+00	5.62E-05 +/- 2.41E-05
3	99.22	2.95E+00 +/- 5.66E-01	1.29E+00	1.69E-04 +/- 2.09E-05
4	104.61	1.48E+00 +/- 4.23E-01	1.28E+00	1.81E-04 +/- 1.93E-05
5	111.79	6.03E-01 +/- 3.95E-01	1.28E+00	1.97E-04 +/- 1.73E-05
6	116.00	8.46E-01 +/- 3.92E-01	1.28E+00	2.05E-04 +/- 1.63E-05
7	129.29	8.63E+00 +/- 4.03E-01	1.27E+00	2.27E-04 +/- 1.46E-05
8	204.22	5.72E-01 +/- 2.74E-01	1.23E+00	2.63E-04 +/- 1.78E-05
9	208.75	4.31E-01 +/- 2.96E-01	1.23E+00	2.62E-04 +/- 1.78E-05
10	300.10	1.75E-01 +/- 1.19E-01	1.20E+00	2.27E-04 +/- 1.31E-05
11	333.49	5.54E-01 +/- 1.13E-01	1.20E+00	2.12E-04 +/- 1.13E-05
12	345.70	7.57E-01 +/- 1.20E-01	1.20E+00	2.07E-04 +/- 1.08E-05
13	375.84	1.92E+00 +/- 1.87E-01	1.19E+00	1.94E-04 +/- 9.72E-06
14	393.56	7.07E-01 +/- 9.64E-02	1.19E+00	1.87E-04 +/- 9.26E-06
15	413.70	1.77E+00 +/- 1.37E-01	1.19E+00	1.79E-04 +/- 8.85E-06
16	452.26	1.88E-01 +/- 5.08E-02	1.18E+00	1.65E-04 +/- 8.35E-06
17	867.39	1.75E-02 +/- 1.24E-02	1.12E+00	8.96E-05 +/- 5.22E-06
18	1408.01	3.50E-02 +/- 1.75E-02	1.09E+00	6.48E-05 +/- 4.76E-06
19	2236.00	1.00E+02 +/- 1.50E+00	1.08E+00	6.28E-05 +/- 1.87E-05

Summed Spectrum

Peak Locate Report

Sample ID: LL850001773
Peak Locate Performed on: 4-07-08 3:19:24 PM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192
Peak Search Sensitivity: 5.00

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
1	64.61	0.1248	31.97	30.43
2	100.79	0.1415	50.06	18.32
3	121.01	0.0321	60.17	423.26
4	199.19	0.0531	99.26	152.31
5	208.97	0.0716	104.15	72.26
6	224.06	0.0747	111.70	75.82
7	260.71	0.0437	130.02	219.38
8	290.24	0.1330	144.79	27.83
9	299.26	0.1202	149.30	33.68
10	323.99	0.1378	161.66	16.42
11	344.88	0.1533	172.11	19.57
12	360.41	0.1774	179.87	13.81
13	380.64	0.1563	189.99	16.74
14	393.40	0.1340	196.37	22.79
15	418.06	0.0566	208.70	131.56
16	488.60	0.2520	243.97	6.08
17	512.86	0.1308	256.09	25.12
18	530.03	0.2262	264.75	8.73
19	537.23	0.1977	268.26	11.07
20	596.87	0.1727	298.17	16.01
21	602.55	0.2085	300.81	11.23
22	625.91	0.0814	312.62	61.95
23	643.53	0.1802	321.64	12.93
24	649.71	0.1688	324.36	14.71
25	667.64	0.0652	333.50	90.84
26	674.17	0.1189	336.53	35.58
27	692.10	0.0640	345.72	98.07
28	738.35	0.1043	368.84	26.91
29	752.22	0.0479	375.78	164.79
30	762.15	0.0873	380.93	58.80
31	767.97	0.0958	383.51	50.15
32	787.96	0.0663	393.65	88.37
33	829.59	0.0482	414.46	151.52
34	847.33	0.0936	423.33	41.77
35	905.16	0.0827	452.25	55.40
36	965.22	0.2439	482.28	6.51

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
37	1023.99	0.2354	511.66	5.42
38	1239.86	0.1958	619.60	9.70
39	1294.25	0.1733	646.79	11.89
40	1306.96	0.2084	653.15	8.12
41	1319.42	0.2435	659.65	8.07
42	1327.21	0.1202	663.26	24.80
43	1379.78	0.2615	689.56	5.25
44	1446.37	0.1370	722.85	18.24
45	1514.47	0.2469	756.90	5.45
46	1541.08	0.1898	770.21	9.91
47	4473.30	0.0268	2236.32	404.50

Errors quoted at 1.000 sigma

Summed Spectrum

Peak Analysis Report

Sample ID: LL850001773
Peak Analysis Performed on: 4-07-08 3:19:24 PM
Peak Analysis From Channel: 40
Peak Analysis To Channel: 8192

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	1	60-	68	64.61	31.97	4.08E+03	137.76	6.11E+03
	2	94-	104	100.79	50.06	9.68E+03	393.83	5.82E+04
	3	114-	127	121.01	60.17	3.17E+05	712.16	6.88E+04
	4	194-	205	199.19	99.26	1.59E+04	551.71	1.15E+05
	5	205-	215	208.97	104.15	2.23E+04	402.62	5.55E+04
	6	217-	227	224.06	111.70	1.43E+04	365.76	4.95E+04
	7	256-	267	260.71	130.02	7.81E+04	424.21	4.03E+04
	8	283-	293	290.24	144.79	2.39E+03	273.88	3.03E+04
	9	297-	304	299.26	149.30	2.93E+03	220.99	2.26E+04
	10	316-	328	323.99	161.66	2.78E+03	308.03	3.49E+04
	11	338-	351	344.88	172.11	3.41E+03	307.42	3.30E+04
	12	358-	367	360.41	179.87	1.58E+03	229.87	2.26E+04
	13	376-	387	380.64	189.99	2.14E+03	259.65	2.60E+04
	14	387-	397	393.40	196.37	3.04E+03	239.38	2.28E+04
	15	414-	425	418.06	208.70	2.35E+04	309.36	2.79E+04
	16	481-	495	488.60	243.97	4.78E+02	234.74	1.90E+04
	17	509-	520	512.86	256.09	2.58E+03	186.91	1.28E+04
M	18	527-	542	530.17	264.75	8.16E+02	99.18	6.92E+03
m	19	527-	542	537.18	268.26	1.02E+03	112.64	7.76E+03
M	20	591-	610	597.01	298.17	1.55E+03	103.85	6.32E+03
m	21	591-	610	602.30	300.81	1.30E+03	93.02	6.18E+03
	22	620-	630	625.91	312.62	7.98E+03	166.85	8.36E+03
M	23	639-	657	643.95	321.64	1.80E+03	104.18	7.21E+03
m	24	639-	657	649.40	324.36	2.14E+03	112.30	8.13E+03
M	25	660-	679	667.67	333.50	1.75E+04	218.11	5.96E+03
m	26	660-	679	673.72	336.53	4.94E+03	102.29	6.36E+03
	27	691-	699	692.10	345.72	1.56E+04	166.43	4.95E+03
	28	730-	745	738.35	368.84	5.67E+03	170.49	7.79E+03
	29	745-	759	752.22	375.78	3.14E+04	308.56	2.09E+04
M	30	759-	775	762.53	380.93	7.57E+03	134.17	4.16E+03
m	31	759-	775	767.68	383.51	6.88E+03	121.41	3.19E+03
	32	780-	795	787.96	393.65	1.52E+04	162.24	3.71E+03
	33	821-	837	829.59	414.46	4.17E+04	221.98	2.41E+03
	34	839-	852	847.33	423.33	2.36E+03	90.95	2.15E+03
	35	899-	912	905.16	452.25	4.96E+03	85.90	8.83E+02
	36	960-	973	965.22	482.28	1.18E+02	37.33	4.61E+02
	37	1016-	1031	1023.99	511.66	3.93E+02	41.16	4.34E+02

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	38	1231-	1248	1239.86	619.60	2.98E+02	34.39	2.71E+02
	39	1290-	1300	1294.25	646.79	2.04E+02	28.35	2.49E+02
	40	1300-	1315	1306.96	653.15	9.04E+01	37.69	4.38E+02
M	41	1315-	1335	1319.98	659.65	1.57E+02	17.58	2.22E+02
m	42	1315-	1335	1327.19	663.26	1.18E+03	55.31	1.53E+02
	43	1371-	1385	1379.78	689.56	1.15E+02	23.98	1.59E+02
	44	1441-	1454	1446.37	722.85	5.60E+02	31.15	1.48E+02
	45	1509-	1522	1514.47	756.90	8.63E+01	18.86	9.77E+01
	46	1532-	1549	1541.08	770.21	2.55E+02	24.14	1.01E+02
	47	4468-	4483	4473.30	2236.32	1.79E+05	423.86	2.71E+02

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Summed Spectrum

Nuclide Identification Report

Sample ID: LL850001773
Nuclide Library Used: C:\WAS\NLIB\LLNL.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (uCi/)	Activity Uncertainty
Pulser	0.993	2236.00*	100.00	7.812E+02	1.792E+02
Np-237	0.964	300.10*	6.63	2.000E+01	1.444E+00
		311.90*	38.60	2.163E+01	4.834E-01
Pu-239	0.960	413.70*	0.00	3.566E+06	6.892E+04
Pu-239A	0.963	129.29*	0.01	1.359E+06	3.306E+04
Am-241	0.951	662.42*	0.00	5.389E+05	2.584E+04
Am-241D	0.951	722.01*	0.00	5.595E+05	3.160E+04
Pu-241	0.963	148.57*	0.00	1.523E+06	1.186E+05

* = Energy line found in the spectrum.
Energy Tolerance : 1.500 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 4-07-08 3:19:24 PM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
1	31.97	3.6711E+01	3.38
2	50.06	8.7008E+01	4.08
3	60.17	2.8508E+03	0.34
4	99.26	1.4261E+02	3.49
5	104.15	2.0044E+02	1.82
6	111.70	1.2864E+02	2.57
8	144.79	2.1500E+01	11.45
10	161.66	2.4952E+01	11.10
11	172.11	3.0630E+01	9.02
12	179.87	1.4189E+01	14.56
13	189.99	1.9211E+01	12.15
14	196.37	2.7323E+01	7.88
15	208.70	2.1137E+02	1.34
16	243.97	4.2931E+00	49.14
17	256.09	2.3220E+01	7.24
M 18	264.75	7.3344E+00	12.16
m 19	268.26	9.2037E+00	11.00
M 20	298.17	1.3928E+01	6.71
M 23	321.64	1.6185E+01	5.79
m 24	324.36	1.9267E+01	5.24
M 25	333.50	1.5705E+02	1.27
m 26	336.53	4.4372E+01	2.09
27	345.72	1.4024E+02	1.10
28	368.84	5.0988E+01	3.02
29	375.78	2.8209E+02	1.02
M 30	380.93	6.8018E+01	1.79
m 31	383.51	6.1863E+01	1.78
32	393.65	1.3660E+02	1.10
34	423.33	2.1203E+01	3.86
35	452.25	4.4566E+01	1.75
36	482.28	1.0604E+00	31.64
37	511.66	3.5365E+00	10.46
38	619.60	2.6751E+00	11.56
39	646.79	1.8305E+00	13.92
40	653.15	8.1236E-01	41.70
M 41	659.65	1.4127E+00	11.19
43	689.56	1.0302E+00	20.92
45	756.90	7.7542E-01	21.86
46	770.21	2.2943E+00	9.46

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Combined Segment NID

NID Results Combiner Mode: Sum Activities

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		8.54E+02	+/-	1.26E+02	2.08E-02	+/-	3.09E-03
SE-75	<	3.30E-01	+/-	2.22E-02	< 8.04E-06	+/-	5.42E-07
EU-152x		4.80E-02	+/-	1.49E-02	1.17E-06	+/-	3.64E-07
U-233	<	1.87E+04	+/-	1.51E+03	< 4.57E-01	+/-	3.69E-02
U-235		9.40E-02	+/-	4.41E-02	2.29E-06	+/-	1.08E-06
Np-237		2.02E+01	+/-	5.64E-01	4.92E-04	+/-	1.38E-05
Pu-238	<	2.80E+04	+/-	3.19E+03	< 6.83E-01	+/-	7.78E-02
U-238		5.01E+00	+/-	1.81E+00	1.22E-04	+/-	4.42E-05
Pu-239		3.45E+06	+/-	8.28E+04	8.42E+01	+/-	2.02E+00
Pu-239A		1.64E+06	+/-	3.90E+04	4.01E+01	+/-	9.52E-01
Am-241		5.07E+05	+/-	2.49E+04	1.24E+01	+/-	6.07E-01
Am-241D		5.45E+05	+/-	3.03E+04	1.33E+01	+/-	7.39E-01
Pu-241		1.76E+06	+/-	1.43E+05	4.30E+01	+/-	3.49E+00

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
U-235	4.35E-02	+/-	2.04E-02
Np-237	2.86E-02	+/-	8.01E-04
U-238	1.49E+01	+/-	5.40E+00
Pu-239	5.56E+01	+/-	1.33E+00
Pu-239A	2.65E+01	+/-	6.28E-01
Am-241	1.48E-01	+/-	7.27E-03
Pu-241	1.71E-02	+/-	1.38E-03

Summed Spectrum

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		7.81E+02	+/-	1.79E+02	1.91E-02	+/-	4.37E-03
SE-75	<	1.23E+00	+/-	1.12E-02	< 2.99E-05	+/-	2.72E-07
EU-152x	<	5.57E-01	+/-	1.01E-02	< 1.36E-05	+/-	2.46E-07
U-233	<	7.56E+04	+/-	1.62E+03	< 1.84E+00	+/-	3.96E-02
U-235	<	1.68E+00	+/-	3.81E-02	< 4.09E-05	+/-	9.28E-07
Np-237		2.15E+01	+/-	4.58E-01	5.24E-04	+/-	1.12E-05
Pu-238	<	1.19E+05	+/-	2.25E+03	< 2.91E+00	+/-	5.49E-02
U-238	<	1.57E+01	+/-	2.49E-01	< 3.82E-04	+/-	6.07E-06
Pu-239		3.57E+06	+/-	6.89E+04	8.70E+01	+/-	1.68E+00
Pu-239A		1.36E+06	+/-	3.31E+04	3.31E+01	+/-	8.06E-01
Am-241		5.39E+05	+/-	2.58E+04	1.31E+01	+/-	6.30E-01
Am-241D		5.60E+05	+/-	3.16E+04	1.36E+01	+/-	7.71E-01
Pu-241		1.52E+06	+/-	1.19E+05	3.72E+01	+/-	2.89E+00

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
Np-237	3.05E-02	+/-	6.51E-04
Pu-239	5.74E+01	+/-	1.11E+00
Pu-239A	2.19E+01	+/-	5.32E-01
Am-241	1.57E-01	+/-	7.55E-03
Pu-241	1.47E-02	+/-	1.15E-03

Final Non-Uniformity Results

Source Longitudinal Ratio:	0.958	+/-	13.9554
Matrix Longitudinal Ratio:	0.825	+/-	0.0986
Source Vertical Ratio:	0.706	+/-	0.3960
Matrix Vertical Ratio:	0.791	+/-	0.0192

NUDS could not find the transmission peak in one radial segment.

Radioassay Data Sheet
Procedure ID & Rev: WCP-55 03/07/2002

Tue Apr 8 06:41:30 2008
Software Version: GWAS v2.3bGEN

Drum ID	: LL85101617	Gross Weight (kg)	: 84.6
Sequence Number	: 2662	Fill Height (%)	: 100.0
Assay Date	: 04/07/08 15:30:36	Density (g/cc)	: 0.29
		Net Weight (kg)	: 60.80
Batch Number	:	Waste Matrix Code	:
Site ID	:	TRUCON	:

	Errors at 1.00 Sigma		
TRU Alpha Activity Concentration:	7.07e-06	+/- 9.84e-07	Ci/g
Total Pu-239 Equiv Activity:	4.14e-01	+/- 5.58e-02	Ci
Total Pu-239 Fissile Gram Equiv:	3.10e+00	+/- 5.00e-01	g
Decay Heat:	1.41e-02	+/- 1.98e-03	W
Total Pu Mass:	2.15e+00	+/- 4.36e-01	g
TMU:	21.78%		
Waste Classification:	TRU		

Isotopics Data

Measured Isotope	MGA Report Weight %	MGA Report % Err (1.00 Sigma)
Pu-238	6.46e-01	1.50e+00
Pu-239	9.30e+01	2.04e-01
Pu-240	6.19e+00	3.01e+00
Pu-241	1.15e-01	3.36e+00
Pu-242	3.58e-02	1.10e+01
Am-241	6.57e-01	1.65e+00
Am-243	0.00e+00	0.00e+00
Np-237	0.00e+00	0.00e+00
U-235	5.69e+01	5.31e+00

Activity Errors

Isotope	Isotope Mass (g)	1.00 Sigma Error/Isotope Mass (g)	Alpha Activity/ Isotope (Ci)	1.00 Sigma Error/Isotope (Ci)	MDA (g)
Pu-238	1.39e-02	3.03e-03	2.37e-01	5.18e-02	7.89e-04
Pu-239	2.00e+00	4.35e-01	1.24e-01	2.70e-02	6.24e-02
Pu-240	1.33e-01	2.92e-02	3.02e-02	6.63e-03	0.00e+00
Pu-241	2.47e-03	5.44e-04	2.55e-01	5.62e-02	4.87e-04
Pu-242	7.68e-04	1.87e-04	3.02e-06	7.36e-07	0.00e+00
Am-241	1.13e-02	3.19e-03	3.87e-02	1.09e-02	4.05e-03
Am-243	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
Np-237	1.17e-03	2.86e-04	8.24e-07	2.01e-07	2.74e-04
U-235	1.09e+00	2.47e-01	2.36e-06	5.33e-07	4.80e-02
*U-238	<LLD	0.00e+00	0.00e+00	0.00e+00	1.48e+01
*U-233	<LLD	0.00e+00	0.00e+00	0.00e+00	4.95e-01
CS-137	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
U-234	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
SR-90	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00

* = Activity/Mass below detectable limit.

Operator Signature

Date

Robert J Hazlett Jr

Reviewer Signature

5-1-08

Date

AUTOMATED INDEPENDENT TECHNICAL REVIEW BASED ON WCP-55 03/07/2002

Software Version: GWAS v2.3bGEN
Counter Number: SGS
Data Review for Container: LL85101617
Item Description Code: \Count Type: DEBRIS
Sequence Number: 2662
Assayed on: 04/07/08 15:30:36
Report Generated: 04/08/08 06:41:15
AITR Version 1.4

Section 1 MGA Analysis Review Using MGA Isotopics

Pu-240 Wt Pct <6.19> +/- 2 Sigma error <0.37>
is within limits
Pu-240 Wt Pct error <3.01> is within limits
Pu-238 Wt Pct error <1.50> is within limits
QFIT <1.00> is within limits
REVIEW MGAERR12: Calculations in MGAABS didn't converge: MGA results may be suspect ok
REVIEW MGAERR13: Efficiency curvature boundary reached ok

Section 2 - CONTAINER DENSITY REVIEW

Container density <0.292> g/cc is within UPPER and LOWER limits

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Section 3 - SELF-ABSORPTION REVIEW

Pu-239/Pu-239a ratio <9.66e-01> is within limits

Section 4 - PULSER REVIEW

DEAD TIME percentage <1.07> is acceptable in Segment 1
Pulser value <0.99> is within range in Segment 1
DEAD TIME percentage <1.34> is acceptable in Segment 2
Pulser value <0.99> is within range in Segment 2
DEAD TIME percentage <1.50> is acceptable in Segment 3
Pulser value <0.99> is within range in Segment 3
DEAD TIME percentage <1.01> is acceptable in Segment 4
Pulser value <1.00> is within range in Segment 4
DEAD TIME percentage <0.64> is acceptable in Segment 5
Pulser value <0.99> is within range in Segment 5
DEAD TIME percentage <0.59> is acceptable in Segment 6
Pulser value <0.99> is within range in Segment 6
DEAD TIME percentage <0.59> is acceptable in Segment 7
Pulser value <0.98> is within range in Segment 7
DEAD TIME percentage <0.67> is acceptable in Segment 8
Pulser value <0.99> is within range in Segment 8
DEAD TIME percentage <0.83> is acceptable in Segment 9
Pulser value <0.99> is within range in Segment 9
DEAD TIME percentage <0.88> is acceptable in Segment 10
Pulser value <0.99> is within range in Segment 10
DEAD TIME percentage <0.97> is acceptable in Segment 11
Pulser value <0.99> is within range in Segment 11
DEAD TIME percentage <1.09> is acceptable in Segment 12
Pulser value <0.99> is within range in Segment 12
DEAD TIME percentage <0.99> is acceptable in Segment 13
Pulser value <0.99> is within range in Segment 13
DEAD TIME percentage <0.74> is acceptable in Segment 14
Pulser value <0.99> is within range in Segment 14
DEAD TIME percentage <0.60> is acceptable in Segment 15
Pulser value <0.98> is within range in Segment 15
DEAD TIME percentage <0.57> is acceptable in Segment 16
Pulser value <0.99> is within range in Segment 16

Section 5 - TRANSMISSION REVIEW

Transmission results are acceptable in Segment 1
Transmission results are acceptable in Segment 2
Transmission results are acceptable in Segment 3
Transmission results are acceptable in Segment 4

Transmission results are acceptable in Segment 5
Transmission results are acceptable in Segment 6
Transmission results are acceptable in Segment 7
Transmission results are acceptable in Segment 8
Transmission results are acceptable in Segment 9
Transmission results are acceptable in Segment 10
Transmission results are acceptable in Segment 11
Transmission results are acceptable in Segment 12
Transmission results are acceptable in Segment 13
Transmission results are acceptable in Segment 14
Transmission results are acceptable in Segment 15
Transmission results are acceptable in Segment 16

Section 6 - REDUCED CHI SQUARED FIT REVIEW

All energy peaks within <3.00e+00> RCHISQ limit

Section 7 - FGE MASS REVIEW

FGE Mass <3.60> is within limits

Section 8 - PERCENT FULL REVIEW

Percent Full <100.0> is above lower limit <30.0>

Section 9 - IDC COUNT TYPE REVIEW

REVIEW IDC is not available

Section 10 - AM-241 & NP-237 INTERFERENCE REVIEW

REVIEW Am-241 ratio <176.29> is below lower limit <200.00> OK
Np-237 ratio <1708.17> is above lower limit <125.00>

Section 11 - PU-239 CALIBRATION RANGE REVIEW

Pu-239 <2.00> is within limits

Section 12 - CS-137 INTERFERENCE REVIEW

Cs-137 Z Value <1.46> is less than limit <1.96>

Independent Reviewer: Robert J. Hamlett Jr Date: 5-1-08

INDEPENDENT TECHNICAL REVIEW COMMENT SHEET

Counter Number: SGS
Data Review for Container: LL85101617
Item Description Code:
Sequence Number: 2662
Assayed on: 04/07/08 15:30:36
AITR Version 1.4

Comments	Disposition
SECTION 1 - MGA	
MGAERR12	OK
MGAERR13	OK
SECTION 9 - IDC COUNT TYPE	
IDC is not available.	N/A
SECTION 10 - AM-241 & NP-237 INTERFERENCE TEST	
Possible Am-241 interference with 129 KeV peak.	OK. Checked.

Technical Reviewer: Robert J. Hazlett Date: 5-1-08

****
***** M G A R E P O R T *****
****

Report generated on: 4-07-08 4:27:09 PM

MGA version: MGA V9.5 CI

Spectrum ID: 11202662.CNF Sens : 30.0% LT: 55.6 Mins DT: 0.52
Measurement date: 4-07-08 Declared date: 4-07-08

Sample ID: LL85101617 Detector: Total counts: 5.549E+05

Pu g/cm2 = 0.1040 Cd g/cm2 = 1.5834 FWHM at 122 keV = 665 eV
QFIT = 1.00 FWHM at 208 keV = 851 eV
NQFIT = 1.00

Isotope	Relative to Pu-239	%* Err	% Err	Relative to Pu-241	%* Err	Isotope analysis at Meas. date % weight	Meas. date %Err	Decl. date % weight	Decl. date %Err
Pu-238	0.006948	1.6	0.9	5.6216	3.1	0.64626	1.50	0.64626	1.50
Pu-239	1.000000	0.0	1.4	809.0677	3.4	93.00994	0.20	93.00994	0.20
Pu-240	0.066585	3.2	2.9	53.8717	4.2	6.19306	3.01	6.19306	3.01
Pu-241	0.001236	3.4	3.1	1.0000	0.0	0.11496	3.36	0.11496	3.36
Pu-242	(New alg.)			0.3114	(11)	0.03580	(11)	0.03580	(11)
Am-241	0.007062	1.7	1.0	5.7140	3.2	0.65688	1.65	0.65688	1.65
U-235	0.611935	5.2	5.3			56.91600	5.31	56.91600	5.31

Pu-240 effective (meas. date) = 7.882 +/- 2.72%
Am-241 separated about 39.476 +/- 0.419 years ago
Am/Pu-241 weight ratio = 5.71401 +/- 3.21%

Messages :

Lead x-rays detected.
Error in GFIT routine : probable weak peak in location 2.
Calculations in MGAABS didn't converge : results may be suspect.
Efficiency curvature boundary reached.
Pu-241/Pu-239 efficiency changed in MGACAL by 1%.
17 MGA parameter(s) defaulted, starting from parameter 8.

Notes : * = Error in ratio
1.000 sigma errors

Gamma Waste Assay

Sample Information

File Name: C:\WAS\DATA\2700\11102662.S11
Sample ID: LL85101617 Count Sequence Number: 2662
Assay Start: 4-07-08 3:30:39 PM
Description 1:
Description 2:
Location:
Comment:
Waste Type:
Weight: Gross: 84600.0 g Net: 60800.0 g
Density: 0.292 g /ml

Container Type: 55 Gal Galv 23.8
Container: Volume: 208000. ml Full: 100.0 %

System Configuration

Counter ID Number: SGS
Arrangement Description: SGS
Segments: Number: 16 Offset: 0
Scanning Platform: Start: 934 mm Delta: -51 mm
Count Type: 55 Gal Galv 23.8
Collimator/Geometry Setting: 0
Transmission Mode: Two pass
Transmission Source: 0

Errors quoted at 1.000 sigma
Reference Source Date: Reference Source Rate: 1.00E+02 cps
Geometric Correction Factor(SWCONTGCF): 0.760
Date of efficiency calibration approval: 8-27-2003 2:05:34 PM
Mu Factors response file: Lucite
Transmission Calib. Time: 12-10-2007 3:51:07 PM 28849

Reviewed by: Robert J Haslett Jr Date: 5-1-08

Segment Results

Segment: 1 Detector: DET01 (# 1) Position: 1

Elapsed Live Time: 113.77 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.055 +/- 0.0052
SE-75	264.65	0.000 +/- 0.0000	0.099 +/- 0.0021
SE-75	279.53	0.000 +/- 0.0000	0.098 +/- 0.0029
SE-75	400.65	0.000 +/- 0.0000	0.124 +/- 0.0047

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	50.57	6.03E+00 +/- 6.98E-01	3.20E+00	9.62E-07 +/- 2.73E-06
	2	60.19	1.03E+02 +/- 1.64E+00	2.98E+00	6.36E-06 +/- 1.17E-05
	3	100.24	1.44E+01 +/- 7.23E-01	2.61E+00	1.56E-04 +/- 4.09E-05
	4	103.79	3.45E+00 +/- 4.07E-01	2.60E+00	1.76E-04 +/- 3.70E-05
	5	111.71	1.25E+00 +/- 2.76E-01	2.56E+00	2.19E-04 +/- 2.67E-05
M	6	125.93	1.06E+00 +/- 1.39E-01	2.51E+00	2.87E-04 +/- 1.88E-05
m	7	130.00	5.60E+00 +/- 3.83E-01	2.50E+00	3.03E-04 +/- 2.20E-05
	8	152.68	4.15E+00 +/- 2.46E-01	2.42E+00	3.67E-04 +/- 4.47E-05
	9	208.78	1.27E+00 +/- 1.99E-01	2.26E+00	3.80E-04 +/- 4.53E-05
	10	239.22	2.00E-01 +/- 1.01E-01	2.18E+00	3.51E-04 +/- 3.24E-05
	11	333.54	7.72E-01 +/- 1.24E-01	2.06E+00	2.57E-04 +/- 1.33E-05
	12	345.85	3.69E-01 +/- 1.06E-01	2.05E+00	2.47E-04 +/- 1.34E-05
	13	375.80	1.23E+00 +/- 1.42E-01	2.02E+00	2.25E-04 +/- 1.40E-05
	14	393.91	5.67E-01 +/- 9.71E-02	2.00E+00	2.14E-04 +/- 1.43E-05
	15	413.70	1.19E+00 +/- 1.15E-01	1.98E+00	2.03E-04 +/- 1.44E-05
	16	662.42	9.13E-02 +/- 4.69E-02	1.74E+00	1.27E-04 +/- 8.85E-06
	17	964.13	2.33E-02 +/- 2.15E-02	1.59E+00	9.44E-05 +/- 5.09E-06
	18	1085.91	2.60E-02 +/- 1.50E-02	1.54E+00	8.64E-05 +/- 4.52E-06
	19	1275.88	7.93E-02 +/- 2.86E-02	1.49E+00	7.58E-05 +/- 4.03E-06
	20	2236.00	1.00E+02 +/- 1.50E+00	1.38E+00	3.40E-05 +/- 2.15E-05

Segment: 2 Detector: DET01 (# 1) Position: 2

Elapsed Live Time: 113.46 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.023 +/- 0.0035
SE-75	264.65	0.000 +/- 0.0000	0.072 +/- 0.0018
SE-75	279.53	0.000 +/- 0.0000	0.075 +/- 0.0026
SE-75	400.65	0.000 +/- 0.0000	0.097 +/- 0.0041

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.96	4.03E-01 +/- 1.23E-01	4.10E+00	1.86E-05 +/- 1.16E-04
	2	50.14	7.37E+00 +/- 7.75E-01	4.05E+00	8.40E-05 +/- 2.13E-04
	3	60.18	1.64E+02 +/- 2.39E+00	3.73E+00	1.33E-04 +/- 2.14E-04
	4	100.28	1.80E+01 +/- 8.49E-01	3.22E+00	3.13E-04 +/- 7.19E-05
	5	111.67	1.15E+00 +/- 3.37E-01	3.15E+00	3.48E-04 +/- 3.79E-05
M	6	125.95	2.35E+00 +/- 2.06E-01	3.08E+00	3.82E-04 +/- 2.26E-05
m	7	130.04	8.32E+00 +/- 4.48E-01	3.06E+00	3.89E-04 +/- 2.53E-05
	8	152.68	5.03E+00 +/- 2.92E-01	2.90E+00	4.18E-04 +/- 4.48E-05
	9	161.66	2.91E-01 +/- 2.01E-01	2.83E+00	4.24E-04 +/- 4.89E-05
	10	208.71	2.00E+00 +/- 1.98E-01	2.56E+00	4.25E-04 +/- 4.49E-05
	11	239.52	7.48E-01 +/- 1.57E-01	2.41E+00	4.10E-04 +/- 3.36E-05
	12	311.90	5.59E-01 +/- 1.43E-01	2.24E+00	3.58E-04 +/- 1.69E-05
	13	324.12	2.38E-01 +/- 9.35E-02	2.23E+00	3.49E-04 +/- 1.64E-05
	14	333.45	9.36E-01 +/- 1.58E-01	2.21E+00	3.42E-04 +/- 1.64E-05
	15	345.77	7.10E-01 +/- 1.04E-01	2.20E+00	3.34E-04 +/- 1.66E-05
	16	369.34	4.20E-01 +/- 1.09E-01	2.17E+00	3.17E-04 +/- 1.73E-05
	17	375.89	1.68E+00 +/- 1.64E-01	2.16E+00	3.13E-04 +/- 1.76E-05
	18	393.72	4.87E-01 +/- 1.02E-01	2.14E+00	3.01E-04 +/- 1.81E-05
	19	413.70	1.79E+00 +/- 1.50E-01	2.12E+00	2.89E-04 +/- 1.85E-05
	20	452.19	1.02E-01 +/- 5.36E-02	2.06E+00	2.67E-04 +/- 1.85E-05
	21	511.43	3.40E-01 +/- 7.02E-02	1.99E+00	2.39E-04 +/- 1.72E-05
	22	583.88	2.49E-01 +/- 5.73E-02	1.92E+00	2.10E-04 +/- 1.45E-05
	23	662.42	1.17E-01 +/- 4.01E-02	1.85E+00	1.86E-04 +/- 1.15E-05
	24	778.90	6.33E-02 +/- 3.04E-02	1.76E+00	1.59E-04 +/- 8.28E-06
	25	2236.00	1.00E+02 +/- 1.50E+00	1.42E+00	9.73E-05 +/- 5.41E-05

Segment: 3 Detector: DET01 (# 1) Position: 3

Elapsed Live Time: 113.27 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.132 +/- 0.0077
SE-75	264.65	0.000 +/- 0.0000	0.204 +/- 0.0036
SE-75	279.53	0.000 +/- 0.0000	0.205 +/- 0.0047
SE-75	400.65	0.000 +/- 0.0000	0.251 +/- 0.0071

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.45	6.47E-01 +/- 1.97E-01	3.13E+00	3.74E-06 +/- 3.52E-06
	2	50.47	1.19E+01 +/- 1.06E+00	2.42E+00	4.04E-05 +/- 1.93E-05
	3	60.19	1.98E+02 +/- 2.81E+00	2.28E+00	8.08E-05 +/- 2.79E-05
	4	100.30	2.22E+01 +/- 8.77E-01	2.04E+00	3.01E-04 +/- 3.00E-05
	5	111.73	1.91E+00 +/- 3.53E-01	2.01E+00	3.55E-04 +/- 2.60E-05
M	6	123.64	6.56E-01 +/- 1.35E-01	1.98E+00	4.00E-04 +/- 2.30E-05
m	7	126.00	2.19E+00 +/- 1.98E-01	1.98E+00	4.08E-04 +/- 2.26E-05
m	8	130.01	9.24E+00 +/- 4.75E-01	1.97E+00	4.20E-04 +/- 2.22E-05
	9	152.68	5.70E+00 +/- 3.07E-01	1.92E+00	4.70E-04 +/- 2.29E-05
	10	208.72	1.81E+00 +/- 2.20E-01	1.81E+00	4.92E-04 +/- 2.59E-05
	11	239.28	1.05E+00 +/- 1.61E-01	1.76E+00	4.73E-04 +/- 2.42E-05
	12	256.09	2.04E-01 +/- 1.18E-01	1.74E+00	4.58E-04 +/- 2.28E-05
	13	300.10	4.16E-01 +/- 1.29E-01	1.70E+00	4.16E-04 +/- 1.88E-05
	14	311.90	3.14E-01 +/- 1.15E-01	1.69E+00	4.04E-04 +/- 1.79E-05
M	15	333.47	7.33E-01 +/- 1.24E-01	1.67E+00	3.84E-04 +/- 1.63E-05
m	16	336.34	4.49E-01 +/- 8.79E-02	1.67E+00	3.81E-04 +/- 1.61E-05
	17	345.70	5.50E-01 +/- 1.05E-01	1.66E+00	3.72E-04 +/- 1.56E-05
	18	369.02	4.97E-01 +/- 1.28E-01	1.64E+00	3.52E-04 +/- 1.43E-05
	19	375.78	1.22E+00 +/- 1.95E-01	1.63E+00	3.46E-04 +/- 1.41E-05
M	20	380.97	2.84E-01 +/- 8.26E-02	1.63E+00	3.42E-04 +/- 1.38E-05
m	21	383.56	2.74E-01 +/- 7.85E-02	1.63E+00	3.40E-04 +/- 1.37E-05
	22	393.69	5.06E-01 +/- 9.89E-02	1.62E+00	3.31E-04 +/- 1.34E-05
	23	413.70	1.74E+00 +/- 1.43E-01	1.60E+00	3.16E-04 +/- 1.28E-05
	24	452.17	2.61E-01 +/- 7.08E-02	1.58E+00	2.89E-04 +/- 1.20E-05
	25	511.40	4.63E-01 +/- 8.45E-02	1.54E+00	2.55E-04 +/- 1.13E-05
	26	583.92	4.58E-01 +/- 7.45E-02	1.50E+00	2.22E-04 +/- 1.05E-05
	27	662.42	1.94E-01 +/- 6.55E-02	1.47E+00	1.95E-04 +/- 9.62E-06
	28	722.01	1.34E-01 +/- 3.89E-02	1.44E+00	1.79E-04 +/- 8.87E-06
	29	1112.12	3.48E-02 +/- 1.74E-02	1.34E+00	1.27E-04 +/- 4.65E-06
	30	1408.01	8.71E-03 +/- 8.71E-03	1.30E+00	1.15E-04 +/- 7.14E-06
	31	2236.00	1.00E+02 +/- 1.50E+00	1.24E+00	1.32E-04 +/- 3.24E-05
	32	2617.75	6.10E-02 +/- 2.31E-02	1.23E+00	1.56E-04 +/- 5.38E-05

Segment: 4 Detector: DET01 (# 1) Position: 4

Elapsed Live Time: 113.84 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.036 +/- 0.0037
SE-75	264.65	0.000 +/- 0.0000	0.080 +/- 0.0022
SE-75	279.53	0.000 +/- 0.0000	0.088 +/- 0.0031
SE-75	400.65	0.000 +/- 0.0000	0.119 +/- 0.0048

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.37	2.79E-01 +/- 1.28E-01	4.10E+00	1.34E-07 +/- 8.05E-07
	2	50.23	4.66E+00 +/- 6.87E-01	3.61E+00	1.08E-05 +/- 2.70E-05
	3	60.19	9.05E+01 +/- 1.54E+00	3.33E+00	3.63E-05 +/- 5.77E-05
	4	100.34	8.67E+00 +/- 6.29E-01	2.90E+00	2.70E-04 +/- 6.12E-05
	5	111.79	5.06E-01 +/- 2.66E-01	2.84E+00	3.35E-04 +/- 3.60E-05
M	6	125.98	1.19E+00 +/- 1.46E-01	2.78E+00	4.00E-04 +/- 2.37E-05
m	7	130.00	3.78E+00 +/- 3.13E-01	2.76E+00	4.14E-04 +/- 2.68E-05
	8	152.68	2.53E+00 +/- 2.34E-01	2.66E+00	4.70E-04 +/- 4.99E-05
	9	208.69	3.92E-01 +/- 1.77E-01	2.43E+00	4.80E-04 +/- 5.04E-05
M	10	333.70	2.16E-01 +/- 6.83E-02	2.11E+00	3.57E-04 +/- 1.65E-05
m	11	336.49	1.85E-01 +/- 6.22E-02	2.10E+00	3.54E-04 +/- 1.65E-05
	12	345.62	2.13E-01 +/- 8.49E-02	2.09E+00	3.46E-04 +/- 1.65E-05
	13	369.02	9.44E-02 +/- 6.57E-02	2.06E+00	3.26E-04 +/- 1.70E-05
	14	375.82	6.95E-01 +/- 1.34E-01	2.05E+00	3.21E-04 +/- 1.71E-05
	15	393.71	2.07E-01 +/- 8.61E-02	2.03E+00	3.07E-04 +/- 1.75E-05
	16	413.70	9.21E-01 +/- 1.04E-01	2.00E+00	2.94E-04 +/- 1.78E-05
	17	452.11	1.06E-01 +/- 6.08E-02	1.95E+00	2.70E-04 +/- 1.78E-05
	18	511.80	1.66E-01 +/- 5.04E-02	1.89E+00	2.40E-04 +/- 1.65E-05
	19	583.87	1.62E-01 +/- 5.72E-02	1.82E+00	2.13E-04 +/- 1.40E-05
	20	1408.01	1.75E-02 +/- 1.24E-02	1.47E+00	1.06E-04 +/- 7.05E-06
	21	2236.00	1.00E+02 +/- 1.50E+00	1.38E+00	7.00E-05 +/- 3.84E-05

Segment: 5 Detector: DET01 (# 1) Position: 5

Elapsed Live Time: 114.26 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.070 +/- 0.0056
SE-75	264.65	0.000 +/- 0.0000	0.126 +/- 0.0032
SE-75	279.53	0.000 +/- 0.0000	0.130 +/- 0.0040
SE-75	400.65	0.000 +/- 0.0000	0.170 +/- 0.0060

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.17	1.54E+01 +/- 5.48E-01	2.78E+00	4.79E-05 +/- 8.23E-05
2	100.24	1.35E+00 +/- 3.00E-01	2.46E+00	2.82E-04 +/- 6.86E-05
3	129.29	4.76E-01 +/- 1.57E-01	2.35E+00	4.07E-04 +/- 2.65E-05
4	152.68	3.07E-01 +/- 1.25E-01	2.27E+00	4.54E-04 +/- 5.17E-05
5	400.66	1.04E-01 +/- 5.99E-02	1.82E+00	2.94E-04 +/- 1.87E-05
6	413.70	7.56E-02 +/- 4.35E-02	1.81E+00	2.86E-04 +/- 1.90E-05
7	499.54	5.27E-02 +/- 2.44E-02	1.73E+00	2.43E-04 +/- 1.82E-05
8	778.90	4.32E-02 +/- 1.93E-02	1.56E+00	1.66E-04 +/- 8.62E-06
9	1001.03	8.64E-03 +/- 8.64E-03	1.48E+00	1.35E-04 +/- 6.17E-06
10	1408.01	8.64E-03 +/- 8.64E-03	1.39E+00	1.00E-04 +/- 6.78E-06
11	2236.00	1.00E+02 +/- 1.49E+00	1.31E+00	5.76E-05 +/- 3.29E-05

Segment: 6 Detector: DET01 (# 1) Position: 6

Elapsed Live Time: 114.32 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.095 +/- 0.0061
SE-75	264.65	0.000 +/- 0.0000	0.153 +/- 0.0029
SE-75	279.53	0.000 +/- 0.0000	0.156 +/- 0.0038
SE-75	400.65	0.000 +/- 0.0000	0.201 +/- 0.0060

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.14	4.68E+00 +/- 3.31E-01	2.53E+00	6.07E-05 +/- 9.93E-05
2	443.98	6.73E-02 +/- 4.28E-02	1.69E+00	2.92E-04 +/- 1.97E-05
3	662.42	2.60E-02 +/- 1.99E-02	1.55E+00	2.10E-04 +/- 1.26E-05
4	778.90	4.07E-02 +/- 3.35E-02	1.50E+00	1.83E-04 +/- 8.99E-06
5	2225.39	8.39E-02 +/- 3.13E-02	1.28E+00	4.39E-05 +/- 2.41E-05
6	2236.00	1.00E+02 +/- 1.50E+00	1.28E+00	4.34E-05 +/- 2.42E-05

Segment: 7 Detector: DET01 (# 1) Position: 7

Elapsed Live Time: 114.32 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.132 +/- 0.0076
SE-75	264.65	0.000 +/- 0.0000	0.195 +/- 0.0046
SE-75	279.53	0.000 +/- 0.0000	0.200 +/- 0.0055
SE-75	400.65	0.000 +/- 0.0000	0.248 +/- 0.0079

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.18	4.57E+00 +/- 3.48E-01	2.28E+00	1.60E-05 +/- 2.39E-05
2	964.13	3.45E-02 +/- 1.72E-02	1.37E+00	1.49E-04 +/- 6.59E-06
3	2236.00	1.00E+02 +/- 1.49E+00	1.24E+00	5.07E-05 +/- 2.69E-05

Segment: 8 Detector: DET01 (# 1) Position: 8

Elapsed Live Time: 114.23 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.175 +/- 0.0086
SE-75	264.65	0.000 +/- 0.0000	0.225 +/- 0.0052
SE-75	279.53	0.000 +/- 0.0000	0.237 +/- 0.0063
SE-75	400.65	0.000 +/- 0.0000	0.279 +/- 0.0086

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	50.52	9.06E-01 +/- 3.24E-01	2.18E+00	6.16E-05 +/- 2.98E-05
	2	60.19	2.07E+01 +/- 6.16E-01	2.06E+00	1.10E-04 +/- 3.84E-05
	3	103.99	1.07E+00 +/- 2.17E-01	1.87E+00	3.45E-04 +/- 3.07E-05
M	4	111.68	7.81E-01 +/- 1.60E-01	1.85E+00	3.75E-04 +/- 2.73E-05
m	5	115.06	4.84E-01 +/- 1.20E-01	1.84E+00	3.87E-04 +/- 2.60E-05
M	6	126.36	3.32E-01 +/- 8.49E-02	1.82E+00	4.20E-04 +/- 2.30E-05
m	7	130.01	1.65E+00 +/- 2.12E-01	1.81E+00	4.29E-04 +/- 2.26E-05
	8	208.67	3.96E-01 +/- 1.24E-01	1.72E+00	4.74E-04 +/- 2.60E-05
	9	279.54	1.24E-01 +/- 7.74E-02	1.64E+00	4.18E-04 +/- 2.07E-05
	10	333.50	2.12E-01 +/- 8.20E-02	1.60E+00	3.69E-04 +/- 1.62E-05
	11	375.75	2.95E-01 +/- 7.72E-02	1.58E+00	3.34E-04 +/- 1.38E-05
	12	413.70	3.61E-01 +/- 6.53E-02	1.55E+00	3.06E-04 +/- 1.25E-05
	13	512.25	4.88E-01 +/- 8.54E-02	1.49E+00	2.49E-04 +/- 1.09E-05
	14	2236.00	1.00E+02 +/- 1.50E+00	1.22E+00	1.19E-04 +/- 2.92E-05

Segment: 9 Detector: DET01 (# 1) Position: 9

Elapsed Live Time: 114.04 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.071 +/- 0.0047
SE-75	264.65	0.000 +/- 0.0000	0.107 +/- 0.0023
SE-75	279.53	0.000 +/- 0.0000	0.114 +/- 0.0032
SE-75	400.65	0.000 +/- 0.0000	0.144 +/- 0.0050

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	49.81	2.44E+00 +/- 5.40E-01	2.98E+00	2.94E-06 +/- 7.33E-06
	2	60.19	5.10E+01 +/- 1.02E+00	2.77E+00	1.65E-05 +/- 2.58E-05
	3	99.36	2.46E+00 +/- 3.64E-01	2.44E+00	2.36E-04 +/- 5.58E-05
	4	115.52	6.06E-01 +/- 2.81E-01	2.38E+00	3.46E-04 +/- 2.88E-05
M	5	125.94	6.68E-01 +/- 1.15E-01	2.35E+00	4.05E-04 +/- 2.41E-05
m	6	130.03	4.35E+00 +/- 3.43E-01	2.34E+00	4.24E-04 +/- 2.73E-05
	7	204.39	4.65E-01 +/- 1.33E-01	2.18E+00	5.14E-04 +/- 5.33E-05
	8	208.68	8.88E-01 +/- 1.35E-01	2.17E+00	5.11E-04 +/- 5.15E-05
	9	300.10	1.41E-01 +/- 9.15E-02	2.02E+00	3.97E-04 +/- 1.90E-05
	10	311.90	3.29E-01 +/- 9.01E-02	2.00E+00	3.83E-04 +/- 1.78E-05
	11	333.41	5.71E-01 +/- 9.77E-02	1.98E+00	3.59E-04 +/- 1.71E-05
	12	345.93	3.46E-01 +/- 1.09E-01	1.97E+00	3.46E-04 +/- 1.72E-05
	13	375.70	6.36E-01 +/- 1.43E-01	1.93E+00	3.18E-04 +/- 1.78E-05
M	14	380.82	1.66E-01 +/- 6.16E-02	1.93E+00	3.14E-04 +/- 1.79E-05
m	15	383.86	1.77E-01 +/- 6.13E-02	1.93E+00	3.11E-04 +/- 1.80E-05
	16	393.64	3.81E-01 +/- 8.03E-02	1.92E+00	3.03E-04 +/- 1.81E-05
	17	413.70	8.17E-01 +/- 1.01E-01	1.89E+00	2.88E-04 +/- 1.83E-05
	18	452.06	6.01E-02 +/- 4.29E-02	1.85E+00	2.63E-04 +/- 1.81E-05
	19	512.12	5.26E-01 +/- 9.31E-02	1.80E+00	2.33E-04 +/- 1.65E-05
	20	662.42	6.05E-02 +/- 3.30E-02	1.68E+00	1.84E-04 +/- 1.12E-05
	21	778.90	4.11E-02 +/- 3.23E-02	1.62E+00	1.62E-04 +/- 8.21E-06
	22	1001.03	2.38E-02 +/- 2.18E-02	1.53E+00	1.35E-04 +/- 6.06E-06
	23	1275.72	2.20E-01 +/- 4.70E-02	1.45E+00	1.13E-04 +/- 5.18E-06
	24	2236.00	1.00E+02 +/- 1.50E+00	1.35E+00	6.12E-05 +/- 3.31E-05

Segment: 10 Detector: DET01 (# 1) Position: 10

Elapsed Live Time: 113.99 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.134 +/- 0.0064
SE-75	264.65	0.000 +/- 0.0000	0.193 +/- 0.0035
SE-75	279.53	0.000 +/- 0.0000	0.196 +/- 0.0045
SE-75	400.65	0.000 +/- 0.0000	0.248 +/- 0.0069

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	50.09	1.81E+00 +/- 5.02E-01	2.41E+00	8.43E-05 +/- 4.22E-05
	2	60.18	6.49E+01 +/- 1.19E+00	2.27E+00	1.37E-04 +/- 4.88E-05
	3	99.45	3.74E+00 +/- 3.98E-01	2.04E+00	3.30E-04 +/- 3.40E-05
	4	111.72	4.51E-01 +/- 2.97E-01	2.00E+00	3.72E-04 +/- 2.73E-05
M	5	125.91	6.03E-01 +/- 1.19E-01	1.97E+00	4.08E-04 +/- 2.27E-05
m	6	130.04	5.06E+00 +/- 3.67E-01	1.96E+00	4.16E-04 +/- 2.21E-05
	7	208.69	7.34E-01 +/- 1.80E-01	1.83E+00	4.56E-04 +/- 2.51E-05
	8	311.90	2.86E-01 +/- 9.57E-02	1.71E+00	3.87E-04 +/- 1.76E-05
M	9	333.61	4.09E-01 +/- 9.81E-02	1.69E+00	3.70E-04 +/- 1.62E-05
m	10	336.56	1.87E-01 +/- 5.94E-02	1.68E+00	3.68E-04 +/- 1.60E-05
	11	345.76	2.40E-01 +/- 8.69E-02	1.67E+00	3.61E-04 +/- 1.54E-05
	12	375.73	9.98E-01 +/- 1.57E-01	1.64E+00	3.40E-04 +/- 1.40E-05
M	13	381.05	1.24E-01 +/- 5.47E-02	1.64E+00	3.37E-04 +/- 1.38E-05
m	14	383.61	1.08E-01 +/- 4.61E-02	1.64E+00	3.35E-04 +/- 1.37E-05
	15	393.69	4.44E-01 +/- 8.33E-02	1.63E+00	3.28E-04 +/- 1.34E-05
	16	413.70	1.05E+00 +/- 1.18E-01	1.61E+00	3.15E-04 +/- 1.29E-05
	17	452.60	1.11E-01 +/- 4.70E-02	1.58E+00	2.92E-04 +/- 1.22E-05
	18	511.66	4.13E-01 +/- 7.91E-02	1.55E+00	2.62E-04 +/- 1.16E-05
	19	643.44	3.57E-02 +/- 2.75E-02	1.48E+00	2.11E-04 +/- 1.05E-05
	20	662.42	5.75E-02 +/- 3.65E-02	1.47E+00	2.06E-04 +/- 1.03E-05
	21	964.13	2.78E-02 +/- 2.35E-02	1.37E+00	1.45E-04 +/- 6.11E-06
	22	1112.12	2.61E-02 +/- 1.51E-02	1.34E+00	1.29E-04 +/- 4.78E-06
	23	1408.01	8.70E-03 +/- 1.96E-02	1.30E+00	1.09E-04 +/- 6.83E-06
	24	2236.00	1.00E+02 +/- 1.50E+00	1.24E+00	9.04E-05 +/- 2.29E-05

Segment: 11 Detector: DET01 (# 1) Position: 11

Elapsed Live Time: 113.88 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.345 +/- 0.0109
SE-75	264.65	0.000 +/- 0.0000	0.437 +/- 0.0068
SE-75	279.53	0.000 +/- 0.0000	0.445 +/- 0.0082
SE-75	400.65	0.000 +/- 0.0000	0.488 +/- 0.0110

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.03	2.74E-01 +/- 9.73E-02	1.99E+00	1.33E-03 +/- 8.61E-03
	2	49.90	4.48E+00 +/- 6.76E-01	1.67E+00	6.02E-04 +/- 1.61E-03
	3	60.19	8.86E+01 +/- 1.49E+00	1.60E+00	5.03E-04 +/- 8.46E-04
	4	99.52	1.59E+00 +/- 5.66E-01	1.50E+00	4.09E-04 +/- 1.02E-04
	5	103.78	2.62E+00 +/- 3.43E-01	1.49E+00	4.07E-04 +/- 7.80E-05
	6	111.82	7.29E-01 +/- 3.00E-01	1.48E+00	4.03E-04 +/- 4.43E-05
M	7	126.01	1.18E+00 +/- 1.42E-01	1.47E+00	4.00E-04 +/- 2.38E-05
m	8	130.01	5.58E+00 +/- 3.80E-01	1.46E+00	3.99E-04 +/- 2.64E-05
	9	185.71	1.26E+00 +/- 1.88E-01	1.41E+00	3.93E-04 +/- 4.88E-05
	10	208.70	1.05E+00 +/- 2.26E-01	1.39E+00	3.88E-04 +/- 4.34E-05
	11	311.90	3.79E-01 +/- 9.73E-02	1.33E+00	3.53E-04 +/- 1.69E-05
	12	333.51	7.12E-01 +/- 1.24E-01	1.32E+00	3.43E-04 +/- 1.63E-05
	13	345.82	3.57E-01 +/- 8.38E-02	1.31E+00	3.38E-04 +/- 1.66E-05
	14	375.83	1.25E+00 +/- 1.17E-01	1.31E+00	3.25E-04 +/- 1.79E-05
	15	380.79	2.16E-01 +/- 7.31E-02	1.30E+00	3.23E-04 +/- 1.81E-05
	16	393.77	3.70E-01 +/- 8.20E-02	1.30E+00	3.17E-04 +/- 1.87E-05
	17	413.70	1.14E+00 +/- 1.17E-01	1.29E+00	3.08E-04 +/- 1.94E-05
	18	423.52	1.39E-01 +/- 5.84E-02	1.29E+00	3.04E-04 +/- 1.97E-05
	19	443.98	6.26E-02 +/- 4.78E-02	1.28E+00	2.95E-04 +/- 2.00E-05
	20	452.39	7.49E-02 +/- 3.46E-02	1.28E+00	2.91E-04 +/- 2.00E-05
	21	722.01	7.31E-02 +/- 3.52E-02	1.22E+00	1.97E-04 +/- 1.08E-05
	22	964.13	3.47E-02 +/- 1.74E-02	1.18E+00	1.45E-04 +/- 6.48E-06
	23	1408.01	1.74E-02 +/- 1.23E-02	1.15E+00	9.35E-05 +/- 6.52E-06
	24	2236.00	1.00E+02 +/- 1.50E+00	1.12E+00	5.79E-05 +/- 3.30E-05

Segment: 12 Detector: DET01 (# 1) Position: 12

Elapsed Live Time: 113.75 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.231 +/- 0.0092
SE-75	264.65	0.000 +/- 0.0000	0.315 +/- 0.0052
SE-75	279.53	0.000 +/- 0.0000	0.328 +/- 0.0065
SE-75	400.65	0.000 +/- 0.0000	0.373 +/- 0.0091

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.28	6.56E-01 +/- 1.51E-01	2.44E+00	2.75E-09 +/- 1.67E-08
	2	50.26	6.37E+00 +/- 8.13E-01	1.96E+00	2.19E-06 +/- 5.48E-06
	3	60.19	1.22E+02 +/- 1.90E+00	1.87E+00	1.30E-05 +/- 2.08E-05
	4	99.59	2.10E+00 +/- 6.51E-01	1.72E+00	2.34E-04 +/- 5.57E-05
	5	103.73	4.09E+00 +/- 3.89E-01	1.71E+00	2.66E-04 +/- 4.92E-05
	6	111.81	1.03E+00 +/- 3.25E-01	1.69E+00	3.26E-04 +/- 3.50E-05
M	7	126.07	1.46E+00 +/- 1.70E-01	1.67E+00	4.17E-04 +/- 2.46E-05
m	8	130.02	5.59E+00 +/- 3.77E-01	1.67E+00	4.38E-04 +/- 2.82E-05
	9	144.65	6.21E-01 +/- 1.49E-01	1.64E+00	4.97E-04 +/- 4.69E-05
	10	152.68	9.85E-01 +/- 1.83E-01	1.63E+00	5.19E-04 +/- 5.50E-05
	11	185.71	3.32E+00 +/- 2.81E-01	1.59E+00	5.47E-04 +/- 6.36E-05
	12	208.79	1.27E+00 +/- 1.99E-01	1.56E+00	5.31E-04 +/- 5.52E-05
	13	300.10	1.90E-01 +/- 1.11E-01	1.47E+00	4.04E-04 +/- 1.94E-05
	14	311.90	2.84E-01 +/- 1.07E-01	1.46E+00	3.88E-04 +/- 1.81E-05
M	15	333.39	3.88E-01 +/- 9.84E-02	1.45E+00	3.62E-04 +/- 1.72E-05
m	16	336.67	1.97E-01 +/- 6.21E-02	1.45E+00	3.59E-04 +/- 1.72E-05
	17	345.89	3.82E-01 +/- 9.59E-02	1.45E+00	3.49E-04 +/- 1.72E-05
	18	375.79	1.11E+00 +/- 1.44E-01	1.43E+00	3.19E-04 +/- 1.78E-05
M	19	380.93	1.16E-01 +/- 5.26E-02	1.43E+00	3.14E-04 +/- 1.80E-05
m	20	383.50	2.02E-01 +/- 7.37E-02	1.43E+00	3.12E-04 +/- 1.80E-05
	21	393.52	3.73E-01 +/- 7.40E-02	1.42E+00	3.03E-04 +/- 1.82E-05
	22	413.70	9.74E-01 +/- 1.02E-01	1.41E+00	2.87E-04 +/- 1.84E-05
	23	452.16	8.18E-02 +/- 5.68E-02	1.40E+00	2.62E-04 +/- 1.82E-05
	24	662.42	9.58E-02 +/- 3.76E-02	1.32E+00	1.82E-04 +/- 1.13E-05
	25	964.13	8.71E-03 +/- 8.71E-03	1.26E+00	1.38E-04 +/- 6.29E-06
	26	979.18	5.44E-02 +/- 2.43E-02	1.25E+00	1.37E-04 +/- 6.20E-06
	27	1001.03	4.35E-02 +/- 1.95E-02	1.25E+00	1.35E-04 +/- 6.07E-06
	28	1112.12	3.75E-02 +/- 2.13E-02	1.24E+00	1.27E-04 +/- 5.46E-06
	29	2236.00	1.00E+02 +/- 1.50E+00	1.17E+00	6.48E-05 +/- 3.54E-05

Segment: 13 Detector: DET01 (# 1) Position: 13

Elapsed Live Time: 113.86 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.258 +/- 0.0110
SE-75	264.65	0.000 +/- 0.0000	0.341 +/- 0.0076
SE-75	279.53	0.000 +/- 0.0000	0.355 +/- 0.0088
SE-75	400.65	0.000 +/- 0.0000	0.395 +/- 0.0112

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.07	2.29E-01 +/- 8.87E-02	2.32E+00	1.76E-08 +/- 1.15E-07
	2	50.11	4.39E+00 +/- 5.73E-01	1.88E+00	5.07E-06 +/- 1.35E-05
	3	60.19	9.31E+01 +/- 1.54E+00	1.79E+00	2.30E-05 +/- 3.88E-05
	4	99.61	1.75E+00 +/- 5.63E-01	1.65E+00	2.51E-04 +/- 6.26E-05
	5	103.77	3.23E+00 +/- 3.43E-01	1.65E+00	2.79E-04 +/- 5.38E-05
	6	111.68	7.30E-01 +/- 2.86E-01	1.63E+00	3.29E-04 +/- 3.67E-05
M	7	125.97	9.97E-01 +/- 1.32E-01	1.61E+00	4.03E-04 +/- 2.40E-05
m	8	130.02	4.26E+00 +/- 3.36E-01	1.61E+00	4.19E-04 +/- 2.78E-05
	9	144.58	1.21E+00 +/- 2.70E-01	1.59E+00	4.65E-04 +/- 4.60E-05
	10	152.68	4.51E-01 +/- 1.71E-01	1.58E+00	4.81E-04 +/- 5.38E-05
	11	164.41	8.95E-01 +/- 2.13E-01	1.56E+00	4.95E-04 +/- 6.04E-05
	12	185.71	6.20E+00 +/- 3.14E-01	1.54E+00	5.01E-04 +/- 6.14E-05
M	13	205.42	7.22E-01 +/- 1.13E-01	1.52E+00	4.90E-04 +/- 5.48E-05
m	14	208.80	1.42E+00 +/- 1.77E-01	1.52E+00	4.87E-04 +/- 5.33E-05
	15	300.10	1.28E-01 +/- 9.77E-02	1.43E+00	3.86E-04 +/- 1.92E-05
	16	311.90	1.73E-01 +/- 8.11E-02	1.43E+00	3.74E-04 +/- 1.79E-05
M	17	333.60	3.96E-01 +/- 8.98E-02	1.42E+00	3.53E-04 +/- 1.73E-05
m	18	336.55	2.00E-01 +/- 5.69E-02	1.42E+00	3.50E-04 +/- 1.73E-05
	19	345.58	2.85E-01 +/- 9.30E-02	1.42E+00	3.42E-04 +/- 1.75E-05
	20	375.67	6.00E-01 +/- 1.27E-01	1.40E+00	3.16E-04 +/- 1.85E-05
M	21	380.88	9.91E-02 +/- 2.49E-02	1.40E+00	3.12E-04 +/- 1.87E-05
m	22	383.58	1.02E-01 +/- 2.16E-02	1.40E+00	3.10E-04 +/- 1.88E-05
	23	393.45	2.52E-01 +/- 8.31E-02	1.40E+00	3.03E-04 +/- 1.90E-05
	24	413.70	9.94E-01 +/- 9.70E-02	1.39E+00	2.89E-04 +/- 1.94E-05
	25	423.50	9.53E-02 +/- 4.55E-02	1.38E+00	2.83E-04 +/- 1.95E-05
	26	452.29	7.80E-02 +/- 3.99E-02	1.37E+00	2.67E-04 +/- 1.94E-05
	27	867.39	1.73E-02 +/- 1.23E-02	1.26E+00	1.57E-04 +/- 7.21E-06
	28	2236.00	1.00E+02 +/- 1.50E+00	1.16E+00	5.36E-05 +/- 3.03E-05

Segment: 14 Detector: DET01 (# 1) Position: 14

Elapsed Live Time: 114.15 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.463 +/- 0.0152
SE-75	264.65	0.000 +/- 0.0000	0.543 +/- 0.0118
SE-75	279.53	0.000 +/- 0.0000	0.545 +/- 0.0128
SE-75	400.65	0.000 +/- 0.0000	0.586 +/- 0.0154

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	50.23	3.05E+00 +/- 5.02E-01	1.46E+00	4.71E-05 +/- 1.15E-04
	2	60.19	3.52E+01 +/- 8.06E-01	1.42E+00	9.60E-05 +/- 1.50E-04
	3	99.52	9.26E-01 +/- 3.61E-01	1.35E+00	3.19E-04 +/- 7.48E-05
	4	103.82	5.90E-01 +/- 2.38E-01	1.34E+00	3.39E-04 +/- 6.11E-05
	5	111.72	3.46E-01 +/- 2.01E-01	1.34E+00	3.70E-04 +/- 3.92E-05
	6	129.29	7.37E-01 +/- 2.04E-01	1.32E+00	4.20E-04 +/- 2.62E-05
	7	144.60	7.67E-01 +/- 1.84E-01	1.31E+00	4.46E-04 +/- 4.14E-05
	8	164.13	5.30E-01 +/- 1.45E-01	1.30E+00	4.62E-04 +/- 5.26E-05
	9	185.71	4.85E+00 +/- 2.43E-01	1.29E+00	4.64E-04 +/- 5.33E-05
M	10	206.03	2.51E-01 +/- 7.76E-02	1.28E+00	4.56E-04 +/- 4.79E-05
m	11	208.67	3.48E-01 +/- 8.94E-02	1.28E+00	4.54E-04 +/- 4.70E-05
	12	311.90	1.21E-01 +/- 7.76E-02	1.24E+00	3.71E-04 +/- 1.72E-05
	13	333.63	1.26E-01 +/- 6.32E-02	1.23E+00	3.53E-04 +/- 1.64E-05
	14	375.63	2.84E-01 +/- 6.55E-02	1.22E+00	3.22E-04 +/- 1.72E-05
	15	413.70	1.87E-01 +/- 7.12E-02	1.21E+00	2.98E-04 +/- 1.80E-05
	16	778.90	3.24E-02 +/- 2.98E-02	1.15E+00	1.70E-04 +/- 8.37E-06
	17	1001.03	2.59E-02 +/- 1.50E-02	1.13E+00	1.37E-04 +/- 6.10E-06
	18	2236.00	1.00E+02 +/- 1.50E+00	1.09E+00	7.64E-05 +/- 4.15E-05

Segment: 15 Detector: DET01 (# 1) Position: 15

Elapsed Live Time: 114.31 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.642 +/- 0.0201
SE-75	264.65	0.000 +/- 0.0000	0.687 +/- 0.0148
SE-75	279.53	0.000 +/- 0.0000	0.695 +/- 0.0160
SE-75	400.65	0.000 +/- 0.0000	0.724 +/- 0.0185

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	60.19	7.42E+00 +/- 3.84E-01	1.23E+00	1.24E-05 +/- 2.03E-05
M	2	126.11	1.83E-01 +/- 7.84E-02	1.18E+00	4.06E-04 +/- 2.38E-05
m	3	129.90	2.93E-01 +/- 1.03E-01	1.18E+00	4.23E-04 +/- 2.74E-05
	4	144.23	3.38E-01 +/- 1.27E-01	1.18E+00	4.72E-04 +/- 4.56E-05
	5	185.71	1.21E+00 +/- 1.34E-01	1.17E+00	5.02E-04 +/- 6.08E-05
	6	722.01	3.28E-02 +/- 1.90E-02	1.09E+00	1.64E-04 +/- 9.17E-06
	7	1085.91	3.97E-02 +/- 3.17E-02	1.07E+00	1.21E-04 +/- 5.37E-06
	8	1408.01	1.72E-02 +/- 1.22E-02	1.06E+00	9.07E-05 +/- 6.42E-06
	9	2236.00	1.00E+02 +/- 1.49E+00	1.05E+00	3.18E-05 +/- 1.80E-05

Segment: 16 Detector: DET01 (# 1) Position: 16

Elapsed Live Time: 114.35 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.792 +/- 0.0228
SE-75	264.65	0.000 +/- 0.0000	0.834 +/- 0.0178
SE-75	279.53	0.000 +/- 0.0000	0.816 +/- 0.0186
SE-75	400.65	0.000 +/- 0.0000	0.858 +/- 0.0215

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.12	2.07E+00 +/- 2.13E-01	1.12E+00	5.60E-05 +/- 2.41E-05
2	111.76	2.88E-01 +/- 1.11E-01	1.10E+00	1.97E-04 +/- 1.73E-05
3	185.71	1.26E-01 +/- 7.98E-02	1.08E+00	2.63E-04 +/- 1.76E-05
4	2236.00	1.00E+02 +/- 1.49E+00	1.02E+00	6.28E-05 +/- 1.87E-05

Summed Spectrum

Peak Locate Report

Sample ID: LL85101617
Peak Locate Performed on: 4-07-08 4:27:10 PM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192
Peak Search Sensitivity: 5.00

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
1	64.92	0.2123	32.13	8.80
2	100.86	0.1664	50.10	12.64
3	121.04	0.0407	60.19	262.72
4	200.63	0.0806	99.98	50.96
5	224.10	0.1404	111.72	21.26
6	260.76	0.0843	130.05	59.75
7	289.90	0.1987	144.62	11.58
8	307.71	0.1108	153.52	33.59
9	373.67	0.1119	186.50	32.65
10	418.11	0.1169	208.72	31.04
11	479.18	0.2112	239.26	9.08
12	626.02	0.1867	312.68	11.97
13	648.74	0.2723	324.04	5.23
14	667.66	0.1593	333.54	15.88
15	673.73	0.2464	336.32	8.00
16	692.22	0.1568	345.77	16.10
17	739.15	0.2388	369.24	6.65
18	752.24	0.1133	375.79	29.49
19	762.15	0.2247	380.92	9.01
20	768.07	0.2388	383.64	7.99
21	788.04	0.1659	393.68	14.02
22	829.66	0.1163	414.49	26.59
23	847.60	0.2573	423.47	5.55
24	905.15	0.2244	452.24	7.83
25	1024.53	0.1989	511.93	7.60
26	1168.38	0.2273	583.86	6.70
27	1327.26	0.2485	663.30	5.91
28	2552.14	0.2328	1275.74	5.33
29	4473.36	0.0267	2236.35	410.64

Errors quoted at 1.000 sigma

Summed Spectrum

Peak Analysis Report

Sample ID: LL85101617
Peak Analysis Performed on: 4-07-08 4:27:10 PM
Peak Analysis From Channel: 40
Peak Analysis To Channel: 8192

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	1	61-	69	64.92	32.13	4.57E+02	49.09	7.53E+02
	2	94-	103	100.86	50.10	3.64E+03	215.47	1.75E+04
	3	114-	127	121.04	60.19	1.22E+05	428.97	2.22E+04
	4	194-	205	200.63	99.98	9.16E+03	224.43	1.64E+04
	5	217-	227	224.10	111.72	1.20E+03	111.41	4.64E+03
	6	256-	267	260.76	130.05	4.75E+03	128.67	4.48E+03
	7	285-	296	289.90	144.62	4.18E+02	90.77	3.08E+03
	8	302-	314	307.71	153.52	1.85E+03	97.81	2.90E+03
	9	370-	378	373.67	186.50	1.96E+03	70.35	1.38E+03
	10	414-	425	418.11	208.72	1.27E+03	76.50	1.76E+03
	11	475-	486	479.18	239.26	2.53E+02	51.12	9.35E+02
	12	621-	633	626.02	312.68	2.85E+02	43.15	5.98E+02
	13	641-	652	648.74	324.04	2.16E+02	35.84	4.27E+02
M	14	664-	679	667.74	333.54	5.74E+02	42.23	3.07E+02
m	15	664-	679	673.31	336.32	2.58E+02	25.12	3.24E+02
	16	689-	697	692.22	345.77	4.63E+02	34.49	3.36E+02
	17	731-	746	739.15	369.24	2.03E+02	41.61	5.02E+02
	18	746-	759	752.24	375.79	1.09E+03	57.45	7.59E+02
M	19	759-	775	762.51	380.92	2.07E+02	25.78	2.45E+02
m	20	759-	775	767.94	383.64	2.15E+02	25.38	1.84E+02
	21	780-	795	788.04	393.68	4.63E+02	36.85	2.97E+02
	22	821-	837	829.66	414.49	1.31E+03	45.86	2.55E+02
	23	839-	851	847.60	423.47	8.34E+01	23.95	1.87E+02
	24	901-	912	905.15	452.24	1.27E+02	22.21	1.45E+02
	25	1016-	1032	1024.53	511.93	4.95E+02	31.88	1.67E+02
	26	1160-	1176	1168.38	583.86	1.56E+02	22.15	1.07E+02
	27	1319-	1335	1327.26	663.30	9.09E+01	20.86	1.09E+02
	28	2547-	2558	2552.14	1275.74	6.01E+01	12.05	3.39E+01
	29	4467-	4479	4473.36	2236.35	1.85E+05	430.16	1.24E+02

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Summed Spectrum

Nuclide Identification Report

Sample ID: LL85101617
Nuclide Library Used: C:\WAS\NLIB\LLNL.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (uCi/)	Activity Uncertainty
Pulser	0.992	2236.00*	100.00	8.376E+02	1.666E+02
U-235	0.957	185.71*	57.20	3.590E+00	1.496E-01
Np-237	0.728	300.10	6.63		
		311.90*	38.60	8.848E-01	1.342E-01
Pu-238	0.951	152.68*	0.00	2.212E+05	1.228E+04
Pu-239	0.956	413.70*	0.00	1.262E+05	4.991E+03
Pu-239A	0.961	129.29*	0.01	9.725E+04	3.395E+03
Am-241	0.947	662.42*	0.00	4.584E+04	1.053E+04

* = Energy line found in the spectrum.
Energy Tolerance : 1.500 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 4-07-08 4:27:10 PM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
1	32.13	3.9754E+00	10.74
2	50.10	3.1628E+01	5.93
3	60.19	1.0635E+03	0.43
4	99.98	7.9653E+01	2.46
5	111.72	1.0475E+01	9.25
7	144.62	3.6373E+00	21.70
10	208.72	1.1056E+01	6.02
11	239.26	2.1970E+00	20.23
13	324.04	1.8785E+00	16.59
M 14	333.54	4.9907E+00	7.36
m 15	336.32	2.2404E+00	9.75
16	345.77	4.0263E+00	7.45
17	369.24	1.7635E+00	20.52
18	375.79	9.4762E+00	5.28
M 19	380.92	1.8006E+00	12.45
m 20	383.64	1.8727E+00	11.79
21	393.68	4.0253E+00	7.96
23	423.47	7.2465E-01	28.74
24	452.24	1.1045E+00	17.49
25	511.93	4.3042E+00	6.44
26	583.86	1.3604E+00	14.16
28	1275.74	5.2236E-01	20.05

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Combined Segment NID

NID Results Combiner Mode: Sum Activities

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		8.92E+02	+/-	1.33E+02	1.47E-02	+/-	2.19E-03
SE-75	<	6.58E-02	+/-	4.23E-03	< 1.08E-06	+/-	6.95E-08
EU-152x	<	2.74E-01	+/-	2.06E-02	< 4.51E-06	+/-	3.39E-07
U-233	<	4.77E+03	+/-	4.14E+02	< 7.84E-02	+/-	6.81E-03
U-235		2.36E+00	+/-	1.67E-01	3.89E-05	+/-	2.75E-06
Np-237		8.24E-01	+/-	9.74E-02	1.35E-05	+/-	1.60E-06
Pu-238		3.06E+05	+/-	1.83E+04	5.03E+00	+/-	3.01E-01
U-238		3.16E+00	+/-	1.11E+00	5.19E-05	+/-	1.82E-05
Pu-239		1.24E+05	+/-	5.00E+03	2.04E+00	+/-	8.23E-02
Pu-239A		1.28E+05	+/-	4.18E+03	2.11E+00	+/-	6.88E-02
Am-241		3.87E+04	+/-	7.08E+03	6.37E-01	+/-	1.16E-01
Am-241D		2.41E+04	+/-	5.60E+03	3.96E-01	+/-	9.21E-02
Pu-241	<	5.03E+04	+/-	5.12E+03	< 8.28E-01	+/-	8.42E-02

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
U-235	1.09E+00	+/-	7.75E-02
Np-237	1.17E-03	+/-	1.38E-04
Pu-238	1.78E-02	+/-	1.07E-03
U-238	9.41E+00	+/-	3.30E+00
Pu-239	1.99E+00	+/-	8.05E-02
Pu-239A	2.06E+00	+/-	6.73E-02
Am-241	1.13E-02	+/-	2.07E-03

Summed Spectrum

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		8.38E+02	+/-	1.67E+02	1.38E-02	+/-	2.74E-03
SE-75	<	3.50E-01	+/-	2.81E-03	< 5.76E-06	+/-	4.62E-08
EU-152x	<	6.51E-01	+/-	1.04E-02	< 1.07E-05	+/-	1.71E-07
U-233	<	2.59E+04	+/-	5.12E+02	< 4.26E-01	+/-	8.42E-03
U-235		3.59E+00	+/-	1.50E-01	5.90E-05	+/-	2.46E-06
Np-237		8.85E-01	+/-	1.34E-01	1.46E-05	+/-	2.21E-06
Pu-238		2.21E+05	+/-	1.23E+04	3.64E+00	+/-	2.02E-01
U-238	<	1.60E+01	+/-	2.48E-01	< 2.63E-04	+/-	4.08E-06
Pu-239		1.26E+05	+/-	4.99E+03	2.08E+00	+/-	8.21E-02
Pu-239A		9.73E+04	+/-	3.40E+03	1.60E+00	+/-	5.58E-02
Am-241		4.58E+04	+/-	1.05E+04	7.54E-01	+/-	1.73E-01
Am-241D	<	8.24E+04	+/-	7.03E+02	< 1.36E+00	+/-	1.16E-02
Pu-241	<	2.60E+05	+/-	4.30E+03	< 4.27E+00	+/-	7.07E-02

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
U-235	1.66E+00	+/-	6.93E-02
Np-237	1.26E-03	+/-	1.91E-04
Pu-238	1.29E-02	+/-	7.17E-04
Pu-239	2.03E+00	+/-	8.04E-02
Pu-239A	1.57E+00	+/-	5.47E-02
Am-241	1.34E-02	+/-	3.08E-03

Final Non-Uniformity Results

Source Longitudinal Ratio:	0.000	+/-	0.0000
Matrix Longitudinal Ratio:	0.942	+/-	0.1886
Source Vertical Ratio:	0.000	+/-	0.0000
Matrix Vertical Ratio:	0.918	+/-	0.0246

NUDS could not find the transmission peak in one radial segment.
NUDS could not find the source peak in any radial segment.

Radioassay Data Sheet — Tue Apr 8 12:10:58 2008
Procedure ID & Rev: WCP-55 03/07/2002 — Software Version: GWAS v2.3bGEN

Drum ID	: S100-2663	Gross Weight (kg)	: 54.0
Sequence Number	: 2663	Fill Height (%)	: 100.0
Assay Date	: 04/08/08 06:58:50	Density (g/cc)	: 0.11
		Net Weight (kg)	: 22.20
Batch Number	:	Waste Matrix Code	:
Site ID	:	TRUCON	:

	Errors at 1.00 Sigma		
TRU Alpha Activity Concentration:	4.28e-04	+/- 5.23e-05	Ci/g
Total Pu-239 Equiv Activity:	9.88e+00	+/- 1.16e+00	Ci
Total Pu-239 Fissile Gram Equiv:	1.05e+02	+/- 1.79e+01	g
Decay Heat:	3.03e-01	+/- 3.66e-02	W
Total Pu Mass:	1.11e+02	+/- 1.79e+01	g
TMU:	17.09%		
Waste Classification:	TRU		

Isotopics Data

Measured Isotope	MGA Report Weight %	MGA Report % Err (1.00 Sigma)
Pu-238	9.08e-03	5.86e+00
Pu-239	9.42e+01	4.53e-02
Pu-240	5.57e+00	7.59e-01
Pu-241	1.78e-01	6.03e-01
Pu-242	3.07e-02	1.00e+01
Am-241	4.97e-01	4.21e-01
Am-243	0.00e+00	0.00e+00
Np-237	0.00e+00	0.00e+00
U-235	0.00e+00	0.00e+00

Activity Errors

Isotope	Isotope Mass (g)	1.00 Sigma Error/Isotope Mass (g)	Alpha Activity/ Isotope (Ci)	1.00 Sigma Error/Isotope (Ci)	MDA (g)
Pu-238	1.01e-02	1.83e-03	1.73e-01	3.13e-02	3.05e-03
Pu-239	1.05e+02	1.79e+01	6.50e+00	1.11e+00	3.12e-01
Pu-240	6.20e+00	1.06e+00	1.41e+00	2.41e-01	0.00e+00
Pu-241	1.98e-01	3.39e-02	2.05e+01	3.51e+00	6.16e-03
Pu-242	3.42e-02	6.76e-03	1.34e-04	2.65e-05	0.00e+00
Am-241	4.12e-01	6.91e-02	1.41e+00	2.36e-01	6.39e-03
Am-243	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
Np-237	1.32e-02	2.28e-03	9.29e-06	1.61e-06	1.40e-03
*U-235	<LLD	0.00e+00	0.00e+00	0.00e+00	3.33e-01
U-238	1.56e+01	5.30e+00	5.24e-06	1.78e-06	1.49e+01
*U-233	<LLD	0.00e+00	0.00e+00	0.00e+00	3.22e+00
CS-137	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
U-234	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
SR-90	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00

* = Activity/Mass below detectable limit.

Operator Signature _____ Date _____

Reviewer Signature _____ Date _____

AUTOMATED INDEPENDENT TECHNICAL REVIEW BASED ON WCP-55 03/07/2002

Software Version: GWAS v2.3bGEN
Counter Number: SGS
Data Review for Container: S100-2663
Item Description Code: \Count Type: DEBRIS
Sequence Number: 2663
Assayed on: 04/08/08 06:58:50
Report Generated: 04/08/08 12:10:43
AITR Version 1.4

Section 1 MGA Analysis Review Using MGA Isotopics

REVIEW Pu-240 Wt Pct +2 Sigma error <5.66> less than <5.87> Review MGA Results
Pu-240 Wt Pct error <0.76> is within limits
Pu-238 Wt Pct error <5.86> is within limits
REVIEW QFIT <1.25> > <1.20> Review MGA Results
REVIEW MGAERR12: Calculations in MGAABS didn't converge: MGA results may be suspect

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Section 2 - CONTAINER DENSITY REVIEW

Container density <0.107> g/cc is within UPPER and LOWER limits

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Section 3 - SELF-ABSORPTION REVIEW

Pu-239/Pu-239a ratio <1.55e+00> is within limits

Section 4 - PULSER REVIEW

DEAD TIME percentage <1.53> is acceptable in Segment 1
Pulser value <0.99> is within range in Segment 1
DEAD TIME percentage <1.96> is acceptable in Segment 2
Pulser value <0.99> is within range in Segment 2
DEAD TIME percentage <4.34> is acceptable in Segment 3
Pulser value <0.99> is within range in Segment 3
DEAD TIME percentage <14.72> is acceptable in Segment 4
Pulser value <0.99> is within range in Segment 4
DEAD TIME percentage <27.10> is acceptable in Segment 5
REVIEW Pulser value <0.98> out of range in Segment 5
DEAD TIME percentage <26.94> is acceptable in Segment 6
REVIEW Pulser value <0.97> out of range in Segment 6
DEAD TIME percentage <16.79> is acceptable in Segment 7
Pulser value <0.99> is within range in Segment 7
DEAD TIME percentage <6.00> is acceptable in Segment 8
Pulser value <1.00> is within range in Segment 8
DEAD TIME percentage <2.03> is acceptable in Segment 9
Pulser value <0.99> is within range in Segment 9
DEAD TIME percentage <1.52> is acceptable in Segment 10
Pulser value <0.99> is within range in Segment 10
DEAD TIME percentage <1.25> is acceptable in Segment 11
Pulser value <0.99> is within range in Segment 11
DEAD TIME percentage <1.06> is acceptable in Segment 12
Pulser value <0.99> is within range in Segment 12
DEAD TIME percentage <0.86> is acceptable in Segment 13
Pulser value <0.99> is within range in Segment 13
DEAD TIME percentage <0.75> is acceptable in Segment 14
Pulser value <0.99> is within range in Segment 14
DEAD TIME percentage <0.69> is acceptable in Segment 15
Pulser value <0.99> is within range in Segment 15
DEAD TIME percentage <0.70> is acceptable in Segment 16
Pulser value <0.99> is within range in Segment 16

Section 5 - TRANSMISSION REVIEW

Transmission results are acceptable in Segment 1
Transmission results are acceptable in Segment 2
Transmission results are acceptable in Segment 3
Transmission results are acceptable in Segment 4
Transmission results are acceptable in Segment 5
Transmission results are acceptable in Segment 6

REVIEW Low Transmission Line <136.000000> < <0.001> found in Segment 7
Transmission results are acceptable in Segment 8
Transmission results are acceptable in Segment 9
Transmission results are acceptable in Segment 10
Transmission results are acceptable in Segment 11
Transmission results are acceptable in Segment 12
Transmission results are acceptable in Segment 13
Transmission results are acceptable in Segment 14
Transmission results are acceptable in Segment 15
Transmission results are acceptable in Segment 16

Section 6 - REDUCED CHI SQUARED FIT REVIEW

REVIEW Reduced chi squared fit value <8.55e+00> exceeds limit <3.00> for energy peak <129.97> in Segment 4
REVIEW Reduced chi squared fit value <1.58e+01> exceeds limit <3.00> for energy peak <129.93> in Segment 5
REVIEW Reduced chi squared fit value <1.16e+01> exceeds limit <3.00> for energy peak <129.93> in Segment 6
REVIEW Reduced chi squared fit value <8.84e+00> exceeds limit <3.00> for energy peak <129.96> in Segment 7
REVIEW Reduced chi squared fit value <3.95e+00> exceeds limit <3.00> for energy peak <129.99> in Segment 8

Section 7 - FGE MASS REVIEW

REVIEW FGE Mass <123.32> > <110.00>

Section 8 - PERCENT FULL REVIEW

Percent Full <100.0> is above lower limit <30.0>

Section 9 - IDC COUNT TYPE REVIEW

REVIEW IDC is not available

Section 10 - AM-241 & NP-237 INTERFERENCE REVIEW

Am-241 ratio <254.66> is above lower limit <200.00>
Np-237 ratio <7951.93> is above lower limit <125.00>

Section 11 - PU-239 CALIBRATION RANGE REVIEW

Pu-239 <104.82> is within limits

Section 12 - CS-137 INTERFERENCE REVIEW

Am-241D > Am-241A: Calculation not performed

Independent Reviewer:_____Date:_____

INDEPENDENT TECHNICAL REVIEW COMMENT SHEET

Counter Number: SGS
Data Review for Container: S100-2663
Item Description Code:
Sequence Number: 2663
Assayed on: 04/08/08 06:58:50
AITR Version 1.4

Comments	Disposition
SECTION 1 - MGA Pu-240 Wt Pct +2 Sigma error is less than lower limit. QFIT is greater than upper limit. MGAERR12	
SECTION 4 - PULSER Pulser value out of range in Segment 5 Pulser value out of range in Segment 6	
SECTION 5 - TRANSMISSION Low Transmission Line 136.0 less than 0.001 found in Segment 7	
SECTION 6 - REDUCED CHI SQUARED FIT Chi square failure for 130.0 Kev in Segment 4 Chi square failure for 129.9 Kev in Segment 5 Chi square failure for 129.9 Kev in Segment 6 Chi square failure for 130.0 Kev in Segment 7 Chi square failure for 130.0 Kev in Segment 8	
SECTION 7 - FGE MASS FGE Mass is greater than upper limit.	
SECTION 9 - IDC COUNT TYPE IDC is not available.	

Technical Reviewer: _____ Date: _____

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***** M G A R E P O R T *****
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Report generated on: 4-08-08 7:58:05 AM

MGA version: MGA V9.5 CI

Spectrum ID: 11202663.CNF Sens : 30.0% LT: 48.8 Mins DT: 16.61
Measurement date: 4-08-08 Declared date: 4-08-08

Sample ID: S100-2663 Detector: Total counts: 1.363E+07

Pu g/cm2 = 0.8273 Cd g/cm2 = 1.7979 FWHM at 122 keV = 619 eV
QFIT = 1.25 FWHM at 208 keV = 791 eV
NQFIT = 1.01

Isotope	Relative to Pu-239	%* Err	% Err	Relative to Pu-241	%* Err	Isotope analysis at Meas. date % weight	%Err	Decl. date % weight	%Err
Pu-238	0.000096	5.9	5.9	0.0509	5.8	0.00908	5.86	0.00908	5.86
Pu-239	1.000000	0.0	0.3	528.4002	0.6	94.20697	0.05	94.20697	0.05
Pu-240	0.059178	0.8	0.8	31.2696	0.9	5.57496	0.76	5.57496	0.76
Pu-241	0.001893	0.6	0.5	1.0000	0.0	0.17829	0.60	0.17829	0.60
Pu-242	(New alg.)			0.1722	(10)	0.03070	(10)	0.03070	(10)
Am-241	0.005274	0.4	0.3	2.7866	0.6	0.49681	0.42	0.49681	0.42

Pu-240 effective (meas. date) = 5.649 +/- 0.82%
Am-241 separated about 27.592 +/- 0.141 years ago
Am/Pu-241 weight ratio = 2.78657 +/- 0.62%

Messages :

Lead x-rays detected.
Calculations in MGAABS didn't converge : results may be suspect.
Pu-241/Pu-239 efficiency changed in MGACAL by 1%.
17 MGA parameter(s) defaulted, starting from parameter 8.

Notes : * = Error in ratio
1.000 sigma errors

Gamma Waste Assay

Sample Information

File Name: C:\WAS\DATA\2700\11102663.S11
Sample ID: S100-2663 Count Sequence Number: 2663
Assay Start: 4-08-08 6:58:52 AM
Description 1:
Description 2:
Location:
Comment:
Waste Type:
Weight: Gross: 54000.0 g Net: 22200.0 g
Density: 0.107 g /ml

Container Type: 55 Gal Galv

Container: Volume: 208000. ml Full: 100.0 %

System Configuration

Counter ID Number:	SGS		
Arrangement Description:	SGS		
Segments:	Number: 16	Offset:	0
Scanning Platform:	Start: 934 mm	Delta:	-51 mm
Count Type:	Daily 100g Drum Check		
Collimator/Geometry Setting:	0		
Transmission Mode:	Two pass		
Transmission Source:	0		

Errors quoted at 1.000 sigma
Reference Source Date: Reference Source Rate: 1.00E+02 cps
Geometric Correction Factor(SWCONTGCF): 0.760
Date of efficiency calibration approval: 8-27-2003 2:05:34 PM
Mu Factors response file: Lucite
Transmission Calib. Time: 12-11-2007 9:07:38 AM 22209

Reviewed by: _____ Date: _____

Segment Results

Segment: 1 Detector: DET01 (# 1) Position: 1

Elapsed Live Time: 113.24 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.339 +/- 0.0132
SE-75	264.65	0.000 +/- 0.0000	0.455 +/- 0.0042
SE-75	279.53	0.000 +/- 0.0000	0.457 +/- 0.0064
SE-75	400.65	0.000 +/- 0.0000	0.513 +/- 0.0097

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.79	1.14E+00 +/- 2.32E-01	2.02E+00	3.93E-10 +/- 2.83E-09
2	48.71	4.47E+00 +/- 5.20E-01	1.69E+00	5.99E-07 +/- 1.86E-06
3	59.99	7.58E+00 +/- 5.78E-01	1.61E+00	6.16E-06 +/- 1.14E-05
4	1112.12	1.75E-02 +/- 1.24E-02	1.16E+00	8.48E-05 +/- 4.39E-06
5	2236.00	1.00E+02 +/- 1.50E+00	1.11E+00	3.40E-05 +/- 2.15E-05

Segment: 2 Detector: DET01 (# 1) Position: 2

Elapsed Live Time: 112.75 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.418 +/- 0.0131
SE-75	264.65	0.000 +/- 0.0000	0.538 +/- 0.0046
SE-75	279.53	0.000 +/- 0.0000	0.551 +/- 0.0073
SE-75	400.65	0.000 +/- 0.0000	0.582 +/- 0.0105

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.34	1.59E+00 +/- 2.80E-01	1.78E+00	1.95E-05 +/- 1.19E-04
2	48.92	3.51E+00 +/- 5.90E-01	1.54E+00	7.84E-05 +/- 2.11E-04
3	60.04	1.64E+01 +/- 7.15E-01	1.48E+00	1.32E-04 +/- 2.14E-04
4	95.24	4.05E+00 +/- 1.07E+00	1.40E+00	2.94E-04 +/- 9.03E-05
5	413.70	2.49E-01 +/- 1.15E-01	1.22E+00	2.89E-04 +/- 1.85E-05
6	559.22	7.89E-02 +/- 3.89E-02	1.19E+00	2.19E-04 +/- 1.55E-05
7	722.01	1.14E-01 +/- 3.16E-02	1.16E+00	1.71E-04 +/- 9.64E-06
8	964.13	2.81E-02 +/- 2.58E-02	1.14E+00	1.32E-04 +/- 6.07E-06
9	1085.91	1.75E-02 +/- 1.24E-02	1.13E+00	1.20E-04 +/- 5.31E-06
10	1112.12	1.42E-02 +/- 1.64E-02	1.13E+00	1.18E-04 +/- 5.17E-06
11	1408.01	8.77E-03 +/- 8.77E-03	1.11E+00	1.02E-04 +/- 6.88E-06
12	2236.00	1.00E+02 +/- 1.51E+00	1.09E+00	9.73E-05 +/- 5.41E-05

Segment: 3 Detector: DET01 (# 1) Position: 3

Elapsed Live Time: 110.01 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.378 +/- 0.0136
SE-75	264.65	0.000 +/- 0.0000	0.480 +/- 0.0044
SE-75	279.53	0.000 +/- 0.0000	0.481 +/- 0.0072
SE-75	400.65	0.000 +/- 0.0000	0.527 +/- 0.0102

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.01	5.59E+00 +/- 4.45E-01	1.89E+00	3.42E-06 +/- 3.28E-06
2	49.85	3.77E+00 +/- 9.06E-01	1.60E+00	3.83E-05 +/- 1.87E-05
3	60.15	7.54E+01 +/- 1.50E+00	1.54E+00	8.06E-05 +/- 2.79E-05
4	99.39	3.00E+01 +/- 1.47E+00	1.45E+00	2.97E-04 +/- 3.03E-05
5	111.70	6.46E+00 +/- 1.10E+00	1.44E+00	3.54E-04 +/- 2.60E-05
6	116.17	3.60E+00 +/- 1.30E+00	1.43E+00	3.73E-04 +/- 2.47E-05
7	125.81	1.66E+00 +/- 6.48E-01	1.42E+00	4.07E-04 +/- 2.27E-05
8	129.29	2.10E+01 +/- 1.03E+00	1.42E+00	4.18E-04 +/- 2.23E-05
9	148.57	3.34E+00 +/- 7.07E-01	1.40E+00	4.63E-04 +/- 2.25E-05

M 10	162.25	1.35E+00 +/-	4.18E-01	1.39E+00	4.82E-04 +/-	2.39E-05
m 11	165.34	1.48E+00 +/-	4.47E-01	1.38E+00	4.85E-04 +/-	2.42E-05
12	172.25	1.35E+00 +/-	6.54E-01	1.38E+00	4.90E-04 +/-	2.49E-05
13	190.22	1.27E+00 +/-	7.37E-01	1.36E+00	4.95E-04 +/-	2.59E-05
14	204.17	4.58E+00 +/-	4.89E-01	1.35E+00	4.93E-04 +/-	2.59E-05
15	208.69	1.45E+01 +/-	8.97E-01	1.35E+00	4.92E-04 +/-	2.59E-05
16	256.02	9.31E-01 +/-	4.98E-01	1.31E+00	4.58E-04 +/-	2.28E-05
17	279.54	1.30E+00 +/-	5.58E-01	1.30E+00	4.36E-04 +/-	2.07E-05
18	300.10	1.36E+00 +/-	5.38E-01	1.30E+00	4.16E-04 +/-	1.88E-05
19	311.90	7.05E-01 +/-	4.12E-01	1.29E+00	4.04E-04 +/-	1.79E-05
M 20	321.79	8.45E-01 +/-	2.45E-01	1.29E+00	3.95E-04 +/-	1.71E-05
m 21	324.58	9.32E-01 +/-	2.61E-01	1.29E+00	3.92E-04 +/-	1.69E-05
M 22	333.42	6.85E+00 +/-	4.83E-01	1.28E+00	3.84E-04 +/-	1.63E-05
m 23	336.32	2.02E+00 +/-	2.37E-01	1.28E+00	3.81E-04 +/-	1.61E-05
24	345.73	5.92E+00 +/-	3.94E-01	1.28E+00	3.72E-04 +/-	1.56E-05
25	368.96	7.48E-01 +/-	3.90E-01	1.27E+00	3.52E-04 +/-	1.44E-05
26	375.79	1.21E+01 +/-	6.20E-01	1.27E+00	3.46E-04 +/-	1.41E-05
M 27	380.96	2.99E+00 +/-	2.88E-01	1.27E+00	3.42E-04 +/-	1.38E-05
m 28	383.51	2.34E+00 +/-	2.38E-01	1.27E+00	3.40E-04 +/-	1.37E-05
29	393.63	6.37E+00 +/-	3.30E-01	1.27E+00	3.31E-04 +/-	1.34E-05
30	413.70	1.63E+01 +/-	4.76E-01	1.26E+00	3.16E-04 +/-	1.28E-05
31	423.39	9.54E-01 +/-	1.53E-01	1.26E+00	3.09E-04 +/-	1.26E-05
32	452.19	1.91E+00 +/-	1.78E-01	1.25E+00	2.89E-04 +/-	1.20E-05
33	619.77	1.55E-01 +/-	6.43E-02	1.21E+00	2.09E-04 +/-	1.01E-05
34	653.33	1.36E-01 +/-	6.42E-02	1.20E+00	1.98E-04 +/-	9.73E-06
35	662.42	8.86E-01 +/-	1.10E-01	1.20E+00	1.95E-04 +/-	9.62E-06
36	722.01	3.69E-01 +/-	7.74E-02	1.19E+00	1.79E-04 +/-	8.87E-06
37	964.13	4.93E-02 +/-	2.81E-02	1.16E+00	1.39E-04 +/-	5.75E-06
38	1085.91	1.80E-02 +/-	1.27E-02	1.15E+00	1.28E-04 +/-	4.75E-06
39	2236.00	1.00E+02 +/-	1.52E+00	1.11E+00	1.32E-04 +/-	3.24E-05

Segment: 4 Detector: DET01 (# 1) Position: 4

Elapsed Live Time: 98.07 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.340 +/- 0.0180
SE-75	264.65	0.000 +/- 0.0000	0.504 +/- 0.0098
SE-75	279.53	0.000 +/- 0.0000	0.489 +/- 0.0115
SE-75	400.65	0.000 +/- 0.0000	0.548 +/- 0.0152

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.99	1.54E+01 +/- 8.65E-01	2.01E+00	1.16E-07 +/- 7.09E-07
	2	49.93	5.64E+00 +/- 1.37E+00	1.68E+00	1.04E-05 +/- 2.62E-05
	3	60.15	4.50E+02 +/- 6.15E+00	1.61E+00	3.61E-05 +/- 5.75E-05
	4	99.36	1.79E+02 +/- 3.75E+00	1.51E+00	2.64E-04 +/- 6.34E-05
	5	111.69	3.81E+01 +/- 2.14E+00	1.49E+00	3.35E-04 +/- 3.62E-05
	6	116.28	1.46E+01 +/- 2.86E+00	1.49E+00	3.58E-04 +/- 2.83E-05
M	7	125.92	2.33E+01 +/- 8.39E-01	1.48E+00	3.99E-04 +/- 2.37E-05
m	8	129.97	1.60E+02 +/- 2.91E+00	1.47E+00	4.14E-04 +/- 2.68E-05
	9	148.57	2.11E+01 +/- 1.27E+00	1.44E+00	4.63E-04 +/- 4.66E-05
	10	161.47	2.14E+00 +/- 1.11E+00	1.42E+00	4.81E-04 +/- 5.49E-05
	11	172.10	8.90E+00 +/- 1.40E+00	1.40E+00	4.88E-04 +/- 5.77E-05
	12	179.89	3.84E+00 +/- 1.20E+00	1.39E+00	4.90E-04 +/- 5.79E-05
	13	190.04	4.90E+00 +/- 9.70E-01	1.37E+00	4.89E-04 +/- 5.65E-05
	14	196.33	7.06E+00 +/- 1.19E+00	1.37E+00	4.87E-04 +/- 5.48E-05
	15	208.68	9.72E+01 +/- 2.17E+00	1.35E+00	4.80E-04 +/- 5.05E-05
	16	256.08	6.54E+00 +/- 9.89E-01	1.29E+00	4.36E-04 +/- 3.05E-05
M	17	264.92	1.47E+00 +/- 3.40E-01	1.28E+00	4.27E-04 +/- 2.74E-05
m	18	268.27	4.13E+00 +/- 5.83E-01	1.29E+00	4.23E-04 +/- 2.63E-05
M	19	298.07	3.60E+00 +/- 5.60E-01	1.29E+00	3.91E-04 +/- 1.92E-05
m	20	303.76	9.59E-01 +/- 3.06E-01	1.28E+00	3.86E-04 +/- 1.84E-05
	21	311.90	5.67E+00 +/- 6.88E-01	1.28E+00	3.77E-04 +/- 1.75E-05
M	22	321.72	4.68E+00 +/- 5.23E-01	1.28E+00	3.68E-04 +/- 1.69E-05
m	23	324.18	5.63E+00 +/- 5.56E-01	1.28E+00	3.66E-04 +/- 1.67E-05
M	24	333.44	4.62E+01 +/- 1.22E+00	1.27E+00	3.57E-04 +/- 1.65E-05
m	25	336.39	1.70E+01 +/- 6.03E-01	1.27E+00	3.54E-04 +/- 1.65E-05
M	26	342.25	1.23E+00 +/- 1.32E-01	1.27E+00	3.49E-04 +/- 1.65E-05
m	27	345.73	3.82E+01 +/- 5.87E-01	1.27E+00	3.46E-04 +/- 1.65E-05
	28	368.91	2.16E+00 +/- 1.03E+00	1.26E+00	3.26E-04 +/- 1.70E-05
	29	375.74	7.65E+01 +/- 1.76E+00	1.25E+00	3.21E-04 +/- 1.71E-05
M	30	380.89	1.68E+01 +/- 6.71E-01	1.25E+00	3.17E-04 +/- 1.72E-05
m	31	383.51	1.62E+01 +/- 6.27E-01	1.25E+00	3.15E-04 +/- 1.73E-05
	32	393.60	3.55E+01 +/- 8.92E-01	1.25E+00	3.08E-04 +/- 1.75E-05
	33	413.70	9.86E+01 +/- 1.62E+00	1.24E+00	2.94E-04 +/- 1.78E-05
	34	423.30	5.81E+00 +/- 3.73E-01	1.24E+00	2.87E-04 +/- 1.79E-05
	35	452.20	1.11E+01 +/- 4.57E-01	1.23E+00	2.70E-04 +/- 1.78E-05
	36	481.91	3.58E-01 +/- 1.43E-01	1.22E+00	2.54E-04 +/- 1.73E-05
	37	619.48	1.10E+00 +/- 1.51E-01	1.20E+00	2.02E-04 +/- 1.27E-05
	38	653.41	6.28E-01 +/- 1.61E-01	1.19E+00	1.93E-04 +/- 1.16E-05
	39	662.42	5.02E+00 +/- 2.70E-01	1.19E+00	1.90E-04 +/- 1.13E-05
	40	689.77	6.00E-01 +/- 1.16E-01	1.18E+00	1.84E-04 +/- 1.04E-05
	41	722.01	2.37E+00 +/- 1.80E-01	1.18E+00	1.77E-04 +/- 9.59E-06
	42	770.09	4.60E-01 +/- 1.07E-01	1.17E+00	1.68E-04 +/- 8.56E-06

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	1408.01	4.58E-02 +/- 3.00E-02	1.12E+00	1.06E-04 +/- 7.05E-06
44	2236.00	1.00E+02 +/- 1.60E+00	1.10E+00	7.00E-05 +/- 3.84E-05

Segment: 5 Detector: DET01 (# 1) Position: 5

Elapsed Live Time: 83.83 sec Elapsed Real Time: 115.00 sec

Analysis Warnings:
Minimum transmission used.

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.005 +/- 0.0025
SE-75	264.65	0.000 +/- 0.0000	0.227 +/- 0.0064
SE-75	279.53	0.000 +/- 0.0000	0.236 +/- 0.0095
SE-75	400.65	0.000 +/- 0.0000	0.364 +/- 0.0141

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.01	3.19E+01 +/- 1.28E+00	4.10E+00	2.74E-07 +/- 1.81E-06
	2	50.03	1.73E+01 +/- 2.04E+00	4.10E+00	1.59E-05 +/- 4.31E-05
	3	60.13	1.09E+03 +/- 1.48E+01	4.10E+00	4.78E-05 +/- 8.22E-05
	4	75.74	7.57E+00 +/- 2.22E+00	4.10E+00	1.31E-04 +/- 1.12E-04
	5	99.32	3.71E+02 +/- 6.68E+00	4.10E+00	2.77E-04 +/- 7.11E-05
	6	111.65	7.58E+01 +/- 3.25E+00	4.10E+00	3.41E-04 +/- 3.83E-05
	7	116.34	4.34E+01 +/- 4.32E+00	4.10E+00	3.61E-04 +/- 2.88E-05
M	8	125.90	4.63E+01 +/- 1.31E+00	4.10E+00	3.97E-04 +/- 2.36E-05
m	9	129.93	3.30E+02 +/- 5.39E+00	4.10E+00	4.09E-04 +/- 2.72E-05
	10	148.57	3.87E+01 +/- 1.87E+00	3.06E+00	4.48E-04 +/- 4.84E-05
	11	171.97	1.43E+01 +/- 1.98E+00	2.45E+00	4.67E-04 +/- 5.93E-05
	12	179.80	8.08E+00 +/- 1.14E+00	2.33E+00	4.67E-04 +/- 5.93E-05
	13	189.86	9.60E+00 +/- 1.35E+00	2.21E+00	4.65E-04 +/- 5.77E-05
	14	196.22	1.28E+01 +/- 1.87E+00	2.14E+00	4.63E-04 +/- 5.59E-05
	15	208.65	2.00E+02 +/- 3.75E+00	2.02E+00	4.56E-04 +/- 5.12E-05
	16	222.08	1.87E+00 +/- 1.09E+00	1.91E+00	4.45E-04 +/- 4.53E-05
	17	256.05	1.15E+01 +/- 9.02E-01	1.71E+00	4.14E-04 +/- 3.05E-05
M	18	264.63	5.14E+00 +/- 5.77E-01	1.67E+00	4.06E-04 +/- 2.74E-05
m	19	268.19	1.19E+01 +/- 9.17E-01	1.66E+00	4.03E-04 +/- 2.62E-05
	20	298.12	7.71E+00 +/- 9.97E-01	1.61E+00	3.74E-04 +/- 1.90E-05

	21	311.90	9.13E+00	+/-	1.01E+00	1.58E+00	3.62E-04 +/-	1.74E-05
M	22	321.65	9.17E+00	+/-	7.65E-01	1.56E+00	3.53E-04 +/-	1.68E-05
m	23	324.09	1.20E+01	+/-	8.49E-01	1.55E+00	3.51E-04 +/-	1.68E-05
M	24	333.38	8.72E+01	+/-	1.97E+00	1.54E+00	3.43E-04 +/-	1.67E-05
m	25	336.33	3.01E+01	+/-	9.26E-01	1.53E+00	3.41E-04 +/-	1.67E-05
M	26	342.19	9.15E+00	+/-	5.04E-01	1.52E+00	3.36E-04 +/-	1.68E-05
m	27	345.67	7.96E+01	+/-	1.89E+00	1.52E+00	3.33E-04 +/-	1.69E-05
	28	368.83	2.86E+01	+/-	1.26E+00	1.48E+00	3.16E-04 +/-	1.77E-05
	29	375.72	1.43E+02	+/-	2.93E+00	1.47E+00	3.11E-04 +/-	1.79E-05
M	30	380.87	3.40E+01	+/-	1.06E+00	1.46E+00	3.07E-04 +/-	1.81E-05
m	31	383.44	3.38E+01	+/-	1.02E+00	1.46E+00	3.06E-04 +/-	1.82E-05
	32	393.56	7.49E+01	+/-	1.52E+00	1.44E+00	2.99E-04 +/-	1.85E-05
	33	413.70	1.91E+02	+/-	2.97E+00	1.43E+00	2.86E-04 +/-	1.90E-05
	34	423.25	1.19E+01	+/-	5.99E-01	1.42E+00	2.81E-04 +/-	1.91E-05
	35	446.29	7.77E-01	+/-	5.46E-01	1.41E+00	2.68E-04 +/-	1.91E-05
	36	452.17	2.09E+01	+/-	7.27E-01	1.41E+00	2.65E-04 +/-	1.91E-05
	37	482.35	7.63E-01	+/-	2.54E-01	1.39E+00	2.50E-04 +/-	1.87E-05
	38	619.66	2.12E+00	+/-	2.44E-01	1.34E+00	2.01E-04 +/-	1.37E-05
	39	633.72	3.13E-01	+/-	1.70E-01	1.34E+00	1.97E-04 +/-	1.32E-05
	40	646.56	7.82E-01	+/-	1.92E-01	1.33E+00	1.94E-04 +/-	1.27E-05
M	41	659.57	5.37E-01	+/-	1.16E-01	1.33E+00	1.91E-04 +/-	1.22E-05
m	42	663.15	9.42E+00	+/-	5.33E-01	1.33E+00	1.90E-04 +/-	1.20E-05

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	689.49	9.13E-01 +/- 1.72E-01	1.32E+00	1.84E-04 +/- 1.11E-05
44	722.01	4.63E+00 +/- 2.79E-01	1.31E+00	1.77E-04 +/- 1.01E-05
45	756.97	2.56E-01 +/- 9.95E-02	1.30E+00	1.70E-04 +/- 9.13E-06
46	770.12	1.68E+00 +/- 1.70E-01	1.30E+00	1.67E-04 +/- 8.81E-06
47	778.90	7.65E-02 +/- 6.02E-02	1.30E+00	1.66E-04 +/- 8.62E-06
48	2236.00	1.00E+02 +/- 1.70E+00	1.17E+00	5.76E-05 +/- 3.29E-05

Segment: 6 Detector: DET01 (# 1) Position: 6

Elapsed Live Time: 84.02 sec Elapsed Real Time: 115.00 sec

Analysis Warnings:
Minimum transmission used.

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.005 +/- 0.0025
SE-75	264.65	0.000 +/- 0.0000	0.199 +/- 0.0058
SE-75	279.53	0.000 +/- 0.0000	0.220 +/- 0.0089
SE-75	400.65	0.000 +/- 0.0000	0.315 +/- 0.0136

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.03	2.16E+01 +/- 1.06E+00	4.10E+00	4.69E-07 +/- 2.95E-06
	2	50.11	1.15E+01 +/- 1.99E+00	4.10E+00	2.19E-05 +/- 5.63E-05
	3	60.13	1.00E+03 +/- 1.36E+01	4.10E+00	6.06E-05 +/- 9.92E-05
	4	99.32	3.52E+02 +/- 6.42E+00	4.10E+00	3.06E-04 +/- 7.51E-05
	5	111.66	7.53E+01 +/- 3.22E+00	4.10E+00	3.68E-04 +/- 4.00E-05
	6	116.23	5.51E+01 +/- 4.08E+00	4.10E+00	3.88E-04 +/- 3.04E-05
M	7	125.90	4.84E+01 +/- 1.33E+00	4.10E+00	4.21E-04 +/- 2.46E-05
m	8	129.93	3.29E+02 +/- 5.35E+00	4.10E+00	4.33E-04 +/- 2.80E-05
	9	148.57	3.96E+01 +/- 2.11E+00	3.14E+00	4.69E-04 +/- 4.84E-05
	10	172.05	1.29E+01 +/- 1.97E+00	2.54E+00	4.85E-04 +/- 5.88E-05
	11	179.84	4.65E+00 +/- 1.77E+00	2.42E+00	4.85E-04 +/- 5.88E-05
	12	189.96	9.92E+00 +/- 1.47E+00	2.29E+00	4.82E-04 +/- 5.72E-05
	13	196.28	1.07E+01 +/- 1.65E+00	2.22E+00	4.80E-04 +/- 5.54E-05
	14	208.65	1.94E+02 +/- 3.65E+00	2.10E+00	4.72E-04 +/- 5.09E-05
	15	221.87	1.49E+00 +/- 8.03E-01	1.99E+00	4.63E-04 +/- 4.53E-05
	16	244.70	3.45E+00 +/- 1.22E+00	1.84E+00	4.43E-04 +/- 3.54E-05

	17	256.03	1.06E+01	+/- 1.11E+00	1.78E+00	4.33E-04	+/-	3.09E-05
M	18	264.59	3.09E+00	+/- 5.07E-01	1.74E+00	4.25E-04	+/-	2.79E-05
m	19	268.16	1.12E+01	+/- 9.33E-01	1.72E+00	4.22E-04	+/-	2.67E-05
M	20	298.12	6.14E+00	+/- 7.92E-01	1.65E+00	3.94E-04	+/-	1.97E-05
m	21	300.74	1.34E+00	+/- 4.17E-01	1.65E+00	3.92E-04	+/-	1.93E-05
	22	311.90	1.03E+01	+/- 9.58E-01	1.63E+00	3.82E-04	+/-	1.81E-05
M	23	321.73	8.70E+00	+/- 7.93E-01	1.61E+00	3.74E-04	+/-	1.75E-05
m	24	324.22	1.19E+01	+/- 8.99E-01	1.61E+00	3.72E-04	+/-	1.74E-05
M	25	333.39	8.95E+01	+/- 1.95E+00	1.59E+00	3.65E-04	+/-	1.73E-05
m	26	336.33	3.53E+01	+/- 9.69E-01	1.59E+00	3.62E-04	+/-	1.73E-05
M	27	342.15	2.77E+00	+/- 4.70E-01	1.58E+00	3.58E-04	+/-	1.74E-05
m	28	345.69	7.52E+01	+/- 1.82E+00	1.57E+00	3.55E-04	+/-	1.74E-05
	29	362.72	1.27E+00	+/- 8.05E-01	1.55E+00	3.43E-04	+/-	1.79E-05
	30	368.87	2.36E+00	+/- 1.53E+00	1.54E+00	3.38E-04	+/-	1.82E-05
	31	375.71	1.49E+02	+/- 2.93E+00	1.53E+00	3.34E-04	+/-	1.84E-05
M	32	380.88	3.23E+01	+/- 1.03E+00	1.53E+00	3.30E-04	+/-	1.86E-05
m	33	383.44	3.15E+01	+/- 9.80E-01	1.52E+00	3.28E-04	+/-	1.87E-05
	34	393.57	7.14E+01	+/- 1.48E+00	1.51E+00	3.22E-04	+/-	1.90E-05
	35	413.70	1.90E+02	+/- 2.94E+00	1.49E+00	3.09E-04	+/-	1.95E-05
	36	423.30	1.22E+01	+/- 5.74E-01	1.49E+00	3.04E-04	+/-	1.96E-05
	37	452.14	2.20E+01	+/- 7.02E-01	1.47E+00	2.88E-04	+/-	1.97E-05
	38	482.21	4.13E-01	+/- 2.37E-01	1.46E+00	2.73E-04	+/-	1.93E-05
	39	584.10	2.08E-01	+/- 1.25E-01	1.41E+00	2.34E-04	+/-	1.58E-05
	40	598.45	4.60E-01	+/- 2.06E-01	1.40E+00	2.29E-04	+/-	1.52E-05
	41	619.66	2.08E+00	+/- 2.38E-01	1.40E+00	2.22E-04	+/-	1.43E-05
	42	646.68	4.78E-01	+/- 1.84E-01	1.39E+00	2.15E-04	+/-	1.32E-05

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
M	43	659.55	1.03E+00 +/- 1.38E-01	1.38E+00	2.11E-04 +/- 1.27E-05
m	44	663.14	9.56E+00 +/- 5.29E-01	1.38E+00	2.10E-04 +/- 1.26E-05
	45	689.48	1.08E+00 +/- 1.66E-01	1.37E+00	2.03E-04 +/- 1.16E-05
	46	709.90	1.86E-01 +/- 7.83E-02	1.37E+00	1.98E-04 +/- 1.09E-05
M	47	718.33	2.63E-01 +/- 6.42E-02	1.36E+00	1.96E-04 +/- 1.06E-05
m	48	722.78	5.20E+00 +/- 3.80E-01	1.36E+00	1.95E-04 +/- 1.05E-05
	49	738.30	1.81E-01 +/- 1.01E-01	1.36E+00	1.92E-04 +/- 1.00E-05
	50	756.99	6.00E-01 +/- 1.27E-01	1.35E+00	1.88E-04 +/- 9.53E-06
	51	770.09	1.18E+00 +/- 1.64E-01	1.35E+00	1.85E-04 +/- 9.20E-06
	52	1408.01	3.46E-02 +/- 2.00E-02	1.24E+00	9.88E-05 +/- 6.79E-06
	53	2236.00	1.00E+02 +/- 1.69E+00	1.20E+00	4.34E-05 +/- 2.42E-05

Segment: 7 Detector: DET01 (# 1) Position: 7

Elapsed Live Time: 95.69 sec Elapsed Real Time: 115.00 sec

Analysis Warnings:
Some transmission peaks rejected.

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.000 +/- 0.0000
SE-75	264.65	0.000 +/- 0.0000	0.314 +/- 0.0067
SE-75	279.53	0.000 +/- 0.0000	0.299 +/- 0.0085
SE-75	400.65	0.000 +/- 0.0000	0.396 +/- 0.0128

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.01	8.07E+00 +/- 6.37E-01	2.36E+00	4.83E-09 +/- 2.77E-08
	2	50.02	8.55E+00 +/- 1.44E+00	1.91E+00	2.86E-06 +/- 6.73E-06
	3	60.14	6.61E+02 +/- 8.83E+00	1.81E+00	1.60E-05 +/- 2.38E-05
	4	99.35	2.13E+02 +/- 4.25E+00	1.67E+00	2.43E-04 +/- 5.52E-05
	5	111.68	4.17E+01 +/- 2.31E+00	1.65E+00	3.35E-04 +/- 3.49E-05
	6	116.25	1.83E+01 +/- 3.09E+00	1.64E+00	3.66E-04 +/- 2.83E-05
M	7	125.93	2.81E+01 +/- 9.32E-01	1.63E+00	4.24E-04 +/- 2.46E-05
m	8	129.96	1.94E+02 +/- 3.38E+00	1.63E+00	4.45E-04 +/- 2.77E-05
	9	148.57	2.21E+01 +/- 1.36E+00	1.60E+00	5.16E-04 +/- 4.85E-05
	10	161.48	2.37E+00 +/- 1.52E+00	1.59E+00	5.43E-04 +/- 5.77E-05
	11	172.13	9.06E+00 +/- 1.63E+00	1.58E+00	5.55E-04 +/- 6.09E-05

	12	179.71	5.21E+00	+/- 1.57E+00	1.57E+00	5.58E-04	+/-	6.12E-05
	13	189.99	6.26E+00	+/- 1.01E+00	1.56E+00	5.58E-04	+/-	5.97E-05
	14	196.35	6.70E+00	+/- 1.24E+00	1.56E+00	5.56E-04	+/-	5.79E-05
	15	204.20	3.78E+01	+/- 1.17E+00	1.55E+00	5.51E-04	+/-	5.50E-05
	16	208.67	8.47E+01	+/- 2.37E+00	1.55E+00	5.47E-04	+/-	5.32E-05
	17	238.47	1.25E+00	+/- 6.71E-01	1.52E+00	5.14E-04	+/-	3.93E-05
	18	256.09	6.68E+00	+/- 7.71E-01	1.51E+00	4.90E-04	+/-	3.18E-05
M	19	264.51	2.54E+00	+/- 4.13E-01	1.50E+00	4.79E-04	+/-	2.87E-05
m	20	268.22	5.86E+00	+/- 6.47E-01	1.51E+00	4.73E-04	+/-	2.74E-05
	21	279.54	1.87E+00	+/- 9.23E-01	1.53E+00	4.58E-04	+/-	2.40E-05
	22	298.01	3.26E+00	+/- 9.37E-01	1.50E+00	4.34E-04	+/-	2.02E-05
	23	311.90	7.11E+00	+/- 7.29E-01	1.49E+00	4.17E-04	+/-	1.86E-05
M	24	321.73	5.69E+00	+/- 5.95E-01	1.48E+00	4.05E-04	+/-	1.79E-05
m	25	324.23	6.14E+00	+/- 5.98E-01	1.47E+00	4.02E-04	+/-	1.78E-05
M	26	333.41	4.78E+01	+/- 1.29E+00	1.46E+00	3.91E-04	+/-	1.76E-05
m	27	336.34	1.61E+01	+/- 6.24E-01	1.46E+00	3.88E-04	+/-	1.76E-05
M	28	342.12	4.53E+00	+/- 3.52E-01	1.45E+00	3.82E-04	+/-	1.76E-05
m	29	345.70	4.29E+01	+/- 1.23E+00	1.45E+00	3.78E-04	+/-	1.76E-05
	30	368.87	3.36E+00	+/- 1.07E+00	1.42E+00	3.55E-04	+/-	1.81E-05
	31	375.74	7.92E+01	+/- 1.85E+00	1.42E+00	3.48E-04	+/-	1.82E-05
M	32	380.90	1.89E+01	+/- 7.23E-01	1.41E+00	3.44E-04	+/-	1.83E-05
m	33	383.48	1.75E+01	+/- 6.68E-01	1.41E+00	3.41E-04	+/-	1.84E-05
	34	393.58	3.95E+01	+/- 9.53E-01	1.40E+00	3.33E-04	+/-	1.86E-05
	35	413.70	1.04E+02	+/- 1.72E+00	1.39E+00	3.17E-04	+/-	1.88E-05
	36	423.26	6.71E+00	+/- 4.05E-01	1.38E+00	3.10E-04	+/-	1.88E-05
	37	452.18	1.26E+01	+/- 4.74E-01	1.37E+00	2.90E-04	+/-	1.86E-05
	38	482.44	2.42E-01	+/- 1.52E-01	1.36E+00	2.72E-04	+/-	1.80E-05
	39	512.61	4.60E-01	+/- 1.92E-01	1.35E+00	2.57E-04	+/-	1.71E-05
	40	619.44	1.08E+00	+/- 1.83E-01	1.31E+00	2.15E-04	+/-	1.32E-05
	41	646.47	6.08E-01	+/- 1.43E-01	1.30E+00	2.08E-04	+/-	1.23E-05
	42	653.21	4.82E-01	+/- 1.74E-01	1.30E+00	2.06E-04	+/-	1.20E-05

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
M	43	659.63	2.90E-01 +/- 7.69E-02	1.30E+00	2.04E-04 +/- 1.18E-05
m	44	663.21	5.45E+00 +/- 3.78E-01	1.30E+00	2.03E-04 +/- 1.17E-05
	45	689.48	2.65E-01 +/- 9.83E-02	1.29E+00	1.96E-04 +/- 1.09E-05
	46	722.01	2.58E+00 +/- 1.90E-01	1.29E+00	1.89E-04 +/- 9.99E-06
	47	756.94	2.76E-01 +/- 6.55E-02	1.28E+00	1.82E-04 +/- 9.17E-06
	48	770.05	8.44E-01 +/- 9.83E-02	1.27E+00	1.79E-04 +/- 8.90E-06
	49	2236.00	1.00E+02 +/- 1.61E+00	1.16E+00	5.07E-05 +/- 2.69E-05
	50	2295.22	1.24E-01 +/- 5.36E-02	1.16E+00	4.77E-05 +/- 2.77E-05

Segment: 8 Detector: DET01 (# 1) Position: 8

Elapsed Live Time: 108.10 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.325 +/- 0.0164
SE-75	264.65	0.000 +/- 0.0000	0.516 +/- 0.0048
SE-75	279.53	0.000 +/- 0.0000	0.531 +/- 0.0077
SE-75	400.65	0.000 +/- 0.0000	0.566 +/- 0.0110

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.18	7.60E+00 +/- 5.21E-01	2.05E+00	7.83E-06 +/- 7.57E-06
	2	50.16	2.97E+00 +/- 8.44E-01	1.71E+00	6.00E-05 +/- 2.94E-05
	3	60.16	1.96E+02 +/- 2.92E+00	1.64E+00	1.10E-04 +/- 3.84E-05
	4	99.38	5.88E+01 +/- 1.94E+00	1.53E+00	3.25E-04 +/- 3.31E-05
	5	111.70	4.60E+00 +/- 1.43E+00	1.51E+00	3.75E-04 +/- 2.72E-05
	6	116.12	1.79E+01 +/- 1.46E+00	1.51E+00	3.90E-04 +/- 2.56E-05
M	7	125.99	8.38E+00 +/- 5.04E-01	1.50E+00	4.19E-04 +/- 2.31E-05
m	8	129.99	5.56E+01 +/- 1.42E+00	1.49E+00	4.29E-04 +/- 2.26E-05
	9	144.85	1.05E+00 +/- 6.47E-01	1.47E+00	4.57E-04 +/- 2.25E-05
	10	148.57	6.84E+00 +/- 8.02E-01	1.46E+00	4.62E-04 +/- 2.28E-05
M	11	161.98	2.73E+00 +/- 5.04E-01	1.43E+00	4.75E-04 +/- 2.42E-05
m	12	165.23	3.29E+00 +/- 5.68E-01	1.42E+00	4.77E-04 +/- 2.45E-05
	13	171.79	4.14E+00 +/- 9.78E-01	1.41E+00	4.80E-04 +/- 2.51E-05
	14	196.42	2.00E+00 +/- 6.53E-01	1.37E+00	4.79E-04 +/- 2.62E-05
	15	208.69	2.76E+01 +/- 1.09E+00	1.35E+00	4.74E-04 +/- 2.60E-05
	16	256.10	1.82E+00 +/- 5.24E-01	1.28E+00	4.39E-04 +/- 2.28E-05
	17	298.30	1.33E+00 +/- 6.47E-01	1.26E+00	4.01E-04 +/- 1.90E-05

	18	311.90	1.05E+00	+/- 4.39E-01	1.25E+00	3.88E-04	+/-	1.78E-05
	19	324.15	2.85E+00	+/- 4.96E-01	1.25E+00	3.77E-04	+/-	1.69E-05
M	20	333.49	1.39E+01	+/- 6.05E-01	1.25E+00	3.69E-04	+/-	1.62E-05
m	21	336.38	5.66E+00	+/- 3.37E-01	1.25E+00	3.67E-04	+/-	1.60E-05
M	22	342.28	1.45E+00	+/- 2.00E-01	1.24E+00	3.61E-04	+/-	1.56E-05
m	23	345.74	1.09E+01	+/- 5.82E-01	1.24E+00	3.59E-04	+/-	1.54E-05
	24	369.05	1.74E+00	+/- 5.49E-01	1.24E+00	3.39E-04	+/-	1.41E-05
	25	375.75	2.15E+01	+/- 8.24E-01	1.24E+00	3.34E-04	+/-	1.38E-05
M	26	380.90	5.17E+00	+/- 3.54E-01	1.24E+00	3.30E-04	+/-	1.36E-05
m	27	383.50	5.03E+00	+/- 3.31E-01	1.24E+00	3.28E-04	+/-	1.35E-05
	28	393.61	1.11E+01	+/- 4.47E-01	1.23E+00	3.21E-04	+/-	1.31E-05
	29	413.70	2.80E+01	+/- 6.48E-01	1.23E+00	3.06E-04	+/-	1.25E-05
	30	423.32	1.30E+00	+/- 2.13E-01	1.23E+00	3.00E-04	+/-	1.22E-05
	31	452.22	3.18E+00	+/- 2.31E-01	1.22E+00	2.82E-04	+/-	1.16E-05
	32	511.13	2.21E-01	+/- 9.55E-02	1.21E+00	2.50E-04	+/-	1.09E-05
	33	619.84	4.28E-01	+/- 8.85E-02	1.19E+00	2.06E-04	+/-	9.86E-06
	34	641.31	1.43E-01	+/- 7.35E-02	1.18E+00	1.99E-04	+/-	9.64E-06
	35	646.61	1.30E-01	+/- 6.14E-02	1.18E+00	1.98E-04	+/-	9.58E-06
	36	653.20	2.75E-01	+/- 9.74E-02	1.18E+00	1.96E-04	+/-	9.51E-06
	37	662.42	1.27E+00	+/- 1.38E-01	1.18E+00	1.93E-04	+/-	9.41E-06
	38	689.41	1.20E-01	+/- 5.85E-02	1.17E+00	1.86E-04	+/-	9.10E-06
	39	722.01	6.46E-01	+/- 9.11E-02	1.17E+00	1.78E-04	+/-	8.71E-06
	40	964.13	3.13E-02	+/- 3.07E-02	1.14E+00	1.39E-04	+/-	5.73E-06
	41	1001.03	6.07E-02	+/- 2.95E-02	1.14E+00	1.35E-04	+/-	5.36E-06
	42	1408.01	9.21E-03	+/- 9.21E-03	1.12E+00	1.13E-04	+/-	7.00E-06

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	2236.00	1.00E+02 +/- 1.54E+00	1.10E+00	1.19E-04 +/- 2.92E-05

Segment: 9 Detector: DET01 (# 1) Position: 9

Elapsed Live Time: 112.67 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.354 +/- 0.0141
SE-75	264.65	0.000 +/- 0.0000	0.517 +/- 0.0045
SE-75	279.53	0.000 +/- 0.0000	0.533 +/- 0.0072
SE-75	400.65	0.000 +/- 0.0000	0.571 +/- 0.0104

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.88	2.16E+00 +/- 2.67E-01	1.97E+00	5.65E-09 +/- 3.43E-08
2	50.21	1.97E+00 +/- 5.64E-01	1.65E+00	3.19E-06 +/- 7.81E-06
3	60.12	2.84E+01 +/- 8.57E-01	1.58E+00	1.64E-05 +/- 2.57E-05
4	67.82	1.21E+00 +/- 5.27E-01	1.55E+00	3.92E-05 +/- 4.36E-05
5	76.14	1.55E+00 +/- 5.70E-01	1.53E+00	7.79E-05 +/- 5.95E-05
6	99.29	2.24E+00 +/- 9.68E-01	1.48E+00	2.35E-04 +/- 5.59E-05
7	129.29	1.45E+00 +/- 5.23E-01	1.45E+00	4.21E-04 +/- 2.66E-05
8	208.63	7.81E-01 +/- 3.68E-01	1.33E+00	5.11E-04 +/- 5.15E-05
9	300.10	4.87E-01 +/- 3.02E-01	1.25E+00	3.97E-04 +/- 1.90E-05
10	375.62	3.05E-01 +/- 1.83E-01	1.23E+00	3.18E-04 +/- 1.78E-05
11	381.06	2.93E-01 +/- 1.52E-01	1.23E+00	3.14E-04 +/- 1.79E-05
12	413.70	5.46E-01 +/- 1.01E-01	1.22E+00	2.88E-04 +/- 1.83E-05
13	512.20	1.27E-01 +/- 6.37E-02	1.20E+00	2.33E-04 +/- 1.65E-05
14	722.01	4.39E-02 +/- 3.52E-02	1.17E+00	1.72E-04 +/- 9.44E-06
15	1001.03	1.98E-02 +/- 1.78E-02	1.14E+00	1.35E-04 +/- 6.06E-06
16	1085.91	1.76E-02 +/- 1.24E-02	1.13E+00	1.27E-04 +/- 5.58E-06
17	2236.00	1.00E+02 +/- 1.50E+00	1.09E+00	6.12E-05 +/- 3.31E-05

Segment: 10 Detector: DET01 (# 1) Position: 10

Elapsed Live Time: 113.25 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.319 +/- 0.0130
SE-75	264.65	0.000 +/- 0.0000	0.473 +/- 0.0042
SE-75	279.53	0.000 +/- 0.0000	0.489 +/- 0.0067
SE-75	400.65	0.000 +/- 0.0000	0.531 +/- 0.0099

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.94	1.85E+00 +/- 2.22E-01	2.08E+00	1.64E-05 +/- 1.64E-05
2	60.06	1.36E+01 +/- 6.20E-01	1.65E+00	1.37E-04 +/- 4.88E-05
3	67.72	1.15E+00 +/- 4.05E-01	1.62E+00	1.79E-04 +/- 4.97E-05
4	235.57	5.08E-01 +/- 2.97E-01	1.34E+00	4.42E-04 +/- 2.38E-05
5	722.01	4.21E-02 +/- 2.40E-02	1.19E+00	1.89E-04 +/- 9.55E-06
6	778.90	3.38E-02 +/- 2.93E-02	1.18E+00	1.76E-04 +/- 8.75E-06
7	867.39	2.62E-02 +/- 1.51E-02	1.17E+00	1.60E-04 +/- 7.45E-06
8	964.13	4.10E-02 +/- 2.47E-02	1.16E+00	1.45E-04 +/- 6.11E-06
9	1001.03	3.71E-02 +/- 2.87E-02	1.16E+00	1.41E-04 +/- 5.67E-06
10	1085.91	3.49E-02 +/- 1.74E-02	1.15E+00	1.31E-04 +/- 4.92E-06
11	1112.12	3.49E-02 +/- 1.74E-02	1.15E+00	1.29E-04 +/- 4.78E-06
12	2236.00	1.00E+02 +/- 1.50E+00	1.11E+00	9.04E-05 +/- 2.29E-05

Segment: 11 Detector: DET01 (# 1) Position: 11

Elapsed Live Time: 113.56 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.207 +/- 0.0110
SE-75	264.65	0.000 +/- 0.0000	0.336 +/- 0.0035
SE-75	279.53	0.000 +/- 0.0000	0.346 +/- 0.0055
SE-75	400.65	0.000 +/- 0.0000	0.386 +/- 0.0082

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.04	1.08E+00 +/- 2.26E-01	2.59E+00	1.33E-03 +/- 8.60E-03
2	60.14	5.36E+00 +/- 4.60E-01	1.94E+00	5.03E-04 +/- 8.48E-04
3	94.55	3.02E+00 +/- 7.56E-01	1.79E+00	4.13E-04 +/- 1.37E-04
4	104.16	9.09E-01 +/- 4.91E-01	1.77E+00	4.06E-04 +/- 7.60E-05
5	1001.03	2.92E-02 +/- 2.50E-02	1.24E+00	1.39E-04 +/- 6.19E-06
6	1408.01	2.61E-02 +/- 1.51E-02	1.20E+00	9.35E-05 +/- 6.52E-06
7	2236.00	1.00E+02 +/- 1.50E+00	1.16E+00	5.79E-05 +/- 3.30E-05

Segment: 12 Detector: DET01 (# 1) Position: 12

Elapsed Live Time: 113.78 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.075 +/- 0.0067
SE-75	264.65	0.000 +/- 0.0000	0.142 +/- 0.0022
SE-75	279.53	0.000 +/- 0.0000	0.153 +/- 0.0037
SE-75	400.65	0.000 +/- 0.0000	0.194 +/- 0.0056

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.88	6.61E-01 +/- 1.78E-01	3.95E+00	2.16E-09 +/- 1.34E-08
2	59.68	2.97E+00 +/- 3.90E-01	2.73E+00	1.21E-05 +/- 1.98E-05
3	104.31	7.50E-01 +/- 4.69E-01	2.39E+00	2.71E-04 +/- 4.82E-05
4	300.10	4.41E-01 +/- 1.84E-01	1.85E+00	4.04E-04 +/- 1.94E-05
5	1001.03	8.67E-03 +/- 8.67E-03	1.44E+00	1.35E-04 +/- 6.07E-06
6	1112.12	5.66E-02 +/- 2.80E-02	1.41E+00	1.27E-04 +/- 5.46E-06
7	2236.00	1.00E+02 +/- 1.50E+00	1.29E+00	6.48E-05 +/- 3.54E-05

Segment: 13 Detector: DET01 (# 1) Position: 13

Elapsed Live Time: 114.01 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.334 +/- 0.0124
SE-75	264.65	0.000 +/- 0.0000	0.425 +/- 0.0039
SE-75	279.53	0.000 +/- 0.0000	0.439 +/- 0.0061
SE-75	400.65	0.000 +/- 0.0000	0.465 +/- 0.0091

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.10	8.48E-01 +/- 1.60E-01	2.03E+00	1.79E-08 +/- 1.16E-07
2	49.73	1.76E+00 +/- 3.25E-01	1.69E+00	4.72E-06 +/- 1.28E-05
3	75.30	4.14E-01 +/- 2.74E-01	1.56E+00	8.80E-05 +/- 7.55E-05
4	964.13	6.93E-02 +/- 2.45E-02	1.20E+00	1.45E-04 +/- 6.45E-06
5	1001.03	3.42E-02 +/- 2.24E-02	1.19E+00	1.41E-04 +/- 6.24E-06
6	2236.00	1.00E+02 +/- 1.50E+00	1.13E+00	5.36E-05 +/- 3.03E-05

Segment: 14 Detector: DET01 (# 1) Position: 14

Elapsed Live Time: 114.14 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.786 +/- 0.0163
SE-75	264.65	0.000 +/- 0.0000	0.875 +/- 0.0060
SE-75	279.53	0.000 +/- 0.0000	0.871 +/- 0.0092
SE-75	400.65	0.000 +/- 0.0000	0.896 +/- 0.0134

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	49.64	1.98E+00 +/- 2.86E-01	1.13E+00	4.47E-05 +/- 1.13E-04
2	60.08	6.62E-01 +/- 2.21E-01	1.12E+00	9.54E-05 +/- 1.50E-04
3	92.80	5.47E-01 +/- 2.91E-01	1.10E+00	2.87E-04 +/- 9.75E-05
4	152.68	5.86E-01 +/- 2.84E-01	1.09E+00	4.55E-04 +/- 4.75E-05

5	300.10	1.67E-01	+/- 1.15E-01	1.05E+00	3.81E-04	+/-	1.84E-05
6	1408.01	1.73E-02	+/- 1.22E-02	1.02E+00	1.05E-04	+/-	7.02E-06
7	2236.00	1.00E+02	+/- 1.50E+00	1.02E+00	7.64E-05	+/-	4.15E-05

Segment: 15 Detector: DET01 (# 1) Position: 15

Elapsed Live Time: 114.21 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.831 +/- 0.0187
SE-75	264.65	0.000 +/- 0.0000	0.899 +/- 0.0061
SE-75	279.53	0.000 +/- 0.0000	0.901 +/- 0.0093
SE-75	400.65	0.000 +/- 0.0000	0.911 +/- 0.0135

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)		Correction Factor	Original Efficiency		
1	148.57	4.64E-01	+/- 2.71E-01	1.07E+00	4.82E-04	+/-	5.01E-05
2	413.70	4.66E-02	+/- 3.54E-02	1.04E+00	2.62E-04	+/-	1.65E-05
3	778.90	3.88E-02	+/- 3.33E-02	1.03E+00	1.56E-04	+/-	8.00E-06
4	867.39	8.63E-03	+/- 8.63E-03	1.02E+00	1.44E-04	+/-	6.82E-06
5	964.13	3.49E-02	+/- 2.13E-02	1.02E+00	1.33E-04	+/-	6.09E-06
6	2236.00	1.00E+02	+/- 1.49E+00	1.02E+00	3.18E-05	+/-	1.80E-05

Segment: 16 Detector: DET01 (# 1) Position: 16

Elapsed Live Time: 114.20 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.796 +/- 0.0179
SE-75	264.65	0.000 +/- 0.0000	0.837 +/- 0.0059
SE-75	279.53	0.000 +/- 0.0000	0.841 +/- 0.0090
SE-75	400.65	0.000 +/- 0.0000	0.879 +/- 0.0133

P E A K A N A L Y S I S R E S U L T S

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	129.29	3.66E-01 +/- 2.25E-01	1.09E+00	2.27E-04 +/- 1.46E-05
2	311.90	8.44E-02 +/- 5.75E-02	1.06E+00	2.22E-04 +/- 1.24E-05
3	400.66	7.35E-02 +/- 4.51E-02	1.05E+00	1.84E-04 +/- 9.10E-06
4	559.08	5.10E-02 +/- 3.03E-02	1.04E+00	1.35E-04 +/- 7.69E-06
5	1085.91	8.63E-03 +/- 8.63E-03	1.03E+00	7.51E-05 +/- 3.53E-06
6	1408.01	8.63E-03 +/- 8.63E-03	1.03E+00	6.48E-05 +/- 4.76E-06
7	2236.00	1.00E+02 +/- 1.49E+00	1.02E+00	6.28E-05 +/- 1.87E-05

Summed Spectrum

Peak Locate Report

Sample ID: S100-2663
Peak Locate Performed on: 4-08-08 7:58:06 AM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192
Peak Search Sensitivity: 5.00

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
1	64.71	0.1092	32.02	36.61
2	100.61	0.1544	49.97	15.02
3	120.94	0.0320	60.14	424.35
4	151.85	0.2803	75.59	6.83
5	199.34	0.0419	99.34	231.36
6	224.02	0.0607	111.67	116.59
7	233.20	0.0693	116.26	46.65
8	260.56	0.0422	129.94	227.08
9	299.17	0.0862	149.25	62.78
10	344.79	0.1534	172.06	18.86
11	360.24	0.1652	179.78	17.08
12	380.56	0.1469	189.95	18.69
13	393.24	0.1252	196.29	27.93
14	417.99	0.0436	208.66	219.64
15	444.77	0.2671	222.05	6.58
16	452.89	0.2645	226.11	6.38
17	488.42	0.2199	243.88	7.87
18	512.81	0.1180	256.07	29.73
19	529.83	0.2000	264.64	11.08
20	537.06	0.1308	268.21	25.44
21	596.92	0.1527	298.13	18.90
22	625.72	0.1083	312.53	33.83
23	643.60	0.1834	321.70	12.75
24	649.30	0.1583	324.16	15.63
25	667.37	0.0595	333.40	108.94
26	673.84	0.0979	336.33	48.94
27	684.63	0.1496	342.17	24.06
28	692.02	0.0598	345.69	114.56
29	725.87	0.2523	362.60	6.62
30	738.42	0.0926	368.87	36.46
31	752.12	0.0447	375.73	194.90
32	762.09	0.0809	380.89	68.74
33	767.89	0.0883	383.46	59.06
34	787.83	0.0604	393.58	103.91
35	829.47	0.0443	414.40	176.30
36	847.23	0.0877	423.28	48.99

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
37	893.46	0.2011	446.40	9.36
38	905.02	0.0785	452.18	63.29
39	965.07	0.2420	482.20	7.15
40	1239.83	0.1494	619.58	16.09
41	1293.77	0.1667	646.55	13.33
42	1319.18	0.2516	659.57	8.18
43	1327.00	0.0937	663.18	40.62
44	1379.67	0.1865	689.50	9.94
45	1409.13	0.2584	704.23	5.37
46	1446.31	0.1105	722.82	28.06
47	1514.73	0.2268	757.03	6.38
48	1540.77	0.1803	770.05	10.46
49	2924.52	0.2457	1461.92	5.21
50	4473.37	0.0271	2236.35	397.16

Errors quoted at 1.000 sigma

Summed Spectrum

Peak Analysis Report

Sample ID: S100-2663
Peak Analysis Performed on: 4-08-08 7:58:06 AM
Peak Analysis From Channel: 40
Peak Analysis To Channel: 8192

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	1	60-	71	64.71	32.02	1.12E+04	217.55	1.31E+04
	2	94-	105	100.61	49.97	8.12E+03	396.18	5.76E+04
	3	114-	127	120.94	60.14	3.27E+05	717.12	6.85E+04
	4	145-	158	151.85	75.59	2.32E+03	422.34	6.30E+04
	5	194-	203	199.34	99.34	1.11E+05	778.50	2.20E+05
	6	217-	227	224.02	111.67	2.20E+04	546.22	1.13E+05
	7	227-	240	233.20	116.26	1.03E+04	730.05	1.77E+05
	8	256-	267	260.56	129.94	8.42E+04	504.95	6.65E+04
	9	297-	306	299.17	149.25	9.30E+03	327.02	4.23E+04
	10	338-	351	344.79	172.06	5.06E+03	375.00	4.91E+04
	11	356-	367	360.24	179.78	2.35E+03	320.18	3.99E+04
	12	375-	387	380.56	189.95	3.28E+03	333.93	4.11E+04
	13	387-	400	393.24	196.29	4.27E+03	346.17	4.19E+04
	14	413-	425	417.99	208.66	5.88E+04	453.76	5.35E+04
	15	441-	447	444.77	222.05	6.63E+02	164.93	1.40E+04
	16	450-	460	452.89	226.11	7.75E+02	223.49	2.06E+04
	17	482-	495	488.42	243.88	4.26E+02	258.49	2.41E+04
	18	509-	517	512.81	256.07	3.49E+03	178.74	1.33E+04
M	19	525-	544	529.96	264.64	1.24E+03	99.87	1.22E+04
m	20	525-	544	537.09	268.21	3.17E+03	161.68	1.29E+04
	21	594-	604	596.92	298.13	2.12E+03	177.17	1.22E+04
	22	622-	630	625.72	312.53	3.38E+03	154.59	9.57E+03
M	23	639-	656	644.07	321.70	2.79E+03	136.37	1.09E+04
m	24	639-	656	648.99	324.16	3.45E+03	146.74	1.25E+04
M	25	662-	681	667.47	333.40	2.62E+04	266.71	9.26E+03
m	26	662-	681	673.33	336.33	8.92E+03	138.96	1.06E+04
M	27	681-	699	685.01	342.17	2.73E+03	84.09	6.28E+03
m	28	681-	699	692.04	345.69	2.38E+04	260.27	6.54E+03
	29	722-	729	725.87	362.60	4.31E+02	101.69	4.92E+03
	30	730-	746	738.42	368.87	1.17E+03	255.28	1.94E+04
	31	746-	759	752.12	375.73	4.44E+04	361.27	2.85E+04
M	32	759-	775	762.44	380.89	1.01E+04	156.72	6.41E+03
m	33	759-	775	767.60	383.46	9.77E+03	147.36	4.79E+03
	34	780-	795	787.83	393.58	2.19E+04	192.23	5.02E+03
	35	821-	837	829.47	414.40	5.74E+04	264.05	3.94E+03
	36	843-	851	847.23	423.28	3.55E+03	93.46	2.41E+03
	37	890-	898	893.46	446.40	1.79E+02	51.11	1.14E+03

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	38	898-	912	905.02	452.18	6.53E+03	109.47	1.90E+03
	39	960-	969	965.07	482.20	1.59E+02	40.65	6.62E+02
	40	1231-	1248	1239.83	619.58	6.18E+02	45.51	4.47E+02
	41	1290-	1299	1293.77	646.55	2.62E+02	32.37	3.42E+02
M	42	1315-	1335	1319.80	659.57	2.10E+02	21.14	3.14E+02
m	43	1315-	1335	1327.02	663.18	2.97E+03	85.29	2.19E+02
	44	1371-	1387	1379.67	689.50	2.65E+02	33.16	2.62E+02
	45	1400-	1414	1409.13	704.23	8.02E+01	26.69	2.18E+02
	46	1441-	1454	1446.31	722.82	1.40E+03	45.92	2.59E+02
	47	1506-	1520	1514.73	757.03	1.03E+02	23.22	1.52E+02
	48	1532-	1549	1540.77	770.05	3.86E+02	29.63	1.51E+02
	49	2918-	2933	2924.52	1461.92	6.02E+01	12.83	3.48E+01
	50	4467-	4483	4473.37	2236.35	1.74E+05	418.56	3.45E+02

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Summed Spectrum

Nuclide Identification Report

Sample ID: S100-2663
Nuclide Library Used: C:\WAS\NLIB\LLNL.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (uCi/)	Activity Uncertainty
Pulser	0.991	2236.00*	100.00	7.332E+02	2.002E+02
Np-237	0.740	300.10	6.63		
		311.90*	38.60	7.892E+00	3.694E-01
Pu-239	0.966	413.70*	0.00	4.297E+06	8.536E+04
Pu-239A	0.970	129.29*	0.01	1.225E+06	3.449E+04
Am-241	0.960	662.42*	0.00	1.228E+06	3.774E+04
Am-241D	0.954	722.01*	0.00	1.263E+06	4.388E+04
Pu-241	0.967	148.57*	0.00	4.075E+06	1.724E+05

* = Energy line found in the spectrum.
Energy Tolerance : 1.500 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 4-08-08 7:58:06 AM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
1	32.02	1.0366E+02	1.96
2	49.97	7.4947E+01	4.89
3	60.14	3.0144E+03	0.34
4	75.59	2.1451E+01	18.18
5	99.34	1.0252E+03	0.75
6	111.67	2.0356E+02	2.49
7	116.26	9.5072E+01	7.09
10	172.06	4.6689E+01	7.42
11	179.78	2.1661E+01	13.65
12	189.95	3.0327E+01	10.17
13	196.29	3.9380E+01	8.12
14	208.66	5.4290E+02	0.81
15	222.05	6.1251E+00	24.86
16	226.11	7.1577E+00	28.83
17	243.88	3.9322E+00	60.69
18	256.07	3.2218E+01	5.13
M 19	264.64	1.1411E+01	8.08
m 20	268.21	2.9228E+01	5.11
21	298.13	1.9549E+01	8.37
M 23	321.70	2.5783E+01	4.89
m 24	324.16	3.1822E+01	4.27
M 25	333.40	2.4158E+02	1.05
m 26	336.33	8.2325E+01	1.58
M 27	342.17	2.5210E+01	3.09
m 28	345.69	2.2016E+02	1.12
29	362.60	3.9794E+00	23.59
30	368.87	1.0840E+01	21.74
31	375.73	4.0948E+02	0.86
M 32	380.89	9.3639E+01	1.57
m 33	383.46	9.0186E+01	1.53
34	393.58	2.0222E+02	0.92
36	423.28	3.2762E+01	2.65
37	446.40	1.6485E+00	28.62
38	452.18	6.0318E+01	1.70
39	482.20	1.4683E+00	25.56
40	619.58	5.7085E+00	7.36
41	646.55	2.4197E+00	12.35
M 42	659.57	1.9418E+00	10.05
44	689.50	2.4492E+00	12.50
45	704.23	7.4048E-01	33.28
47	757.03	9.5455E-01	22.46
48	770.05	3.5649E+00	7.68
49	1461.92	5.5559E-01	21.33

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Combined Segment NID

NID Results Combiner Mode: Sum Activities

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		8.13E+02	+/-	1.20E+02	3.66E-02	+/-	5.40E-03
SE-75	<	5.69E-01	+/-	3.84E-02	< 2.56E-05	+/-	1.73E-06
EU-152x		8.65E-02	+/-	2.08E-02	3.90E-06	+/-	9.35E-07
U-233	<	3.10E+04	+/-	2.50E+03	< 1.40E+00	+/-	1.13E-01
U-235	<	7.21E-01	+/-	9.11E-02	< 3.25E-05	+/-	4.10E-06
Np-237		9.29E+00	+/-	5.42E-01	4.19E-04	+/-	2.44E-05
Pu-238		4.04E+03	+/-	2.00E+03	1.82E-01	+/-	9.03E-02
U-238		5.24E+00	+/-	1.56E+00	2.36E-04	+/-	7.04E-05
Pu-239		5.32E+06	+/-	1.81E+05	2.40E+02	+/-	8.14E+00
Pu-239A		3.42E+06	+/-	1.38E+05	1.54E+02	+/-	6.22E+00
Am-241		1.41E+06	+/-	5.87E+04	6.34E+01	+/-	2.64E+00
Am-241D		1.55E+06	+/-	6.84E+04	6.97E+01	+/-	3.08E+00
Pu-241		1.01E+07	+/-	6.56E+05	4.54E+02	+/-	2.96E+01

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
Np-237	1.32E-02	+/-	7.70E-04
Pu-238	2.36E-04	+/-	1.17E-04
U-238	1.56E+01	+/-	4.66E+00
Pu-239	8.57E+01	+/-	2.91E+00
Pu-239A	5.51E+01	+/-	2.22E+00
Am-241	4.11E-01	+/-	1.71E-02
Pu-241	9.74E-02	+/-	6.35E-03

Summed Spectrum

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		7.33E+02	+/-	2.00E+02	3.30E-02	+/-	9.02E-03
SE-75	<	1.22E+00	+/-	1.35E-02	< 5.47E-05	+/-	6.10E-07
EU-152x	<	6.41E-01	+/-	1.34E-02	< 2.89E-05	+/-	6.05E-07
U-233	<	7.03E+04	+/-	1.78E+03	< 3.17E+00	+/-	8.00E-02
U-235	<	1.66E+00	+/-	4.32E-02	< 7.50E-05	+/-	1.95E-06
Np-237		7.89E+00	+/-	3.69E-01	3.56E-04	+/-	1.66E-05
Pu-238	<	1.23E+05	+/-	2.90E+03	< 5.56E+00	+/-	1.31E-01
U-238	<	1.39E+01	+/-	2.29E-01	< 6.27E-04	+/-	1.03E-05
Pu-239		4.30E+06	+/-	8.54E+04	1.94E+02	+/-	3.85E+00
Pu-239A		1.23E+06	+/-	3.45E+04	5.52E+01	+/-	1.55E+00
Am-241		1.23E+06	+/-	3.77E+04	5.53E+01	+/-	1.70E+00
Am-241D		1.26E+06	+/-	4.39E+04	5.69E+01	+/-	1.98E+00
Pu-241		4.08E+06	+/-	1.72E+05	1.84E+02	+/-	7.77E+00

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
Np-237	1.12E-02	+/-	5.25E-04
Pu-239	6.92E+01	+/-	1.37E+00
Pu-239A	1.97E+01	+/-	5.55E-01
Am-241	3.59E-01	+/-	1.10E-02
Pu-241	3.94E-02	+/-	1.67E-03

Final Non-Uniformity Results

Source Longitudinal Ratio:	0.833	+/-	3.1130
Matrix Longitudinal Ratio:	0.770	+/-	0.0402
Source Vertical Ratio:	0.875	+/-	0.4496
Matrix Vertical Ratio:	0.845	+/-	0.0568

NUDS could not find the transmission peak in one radial segment.

Radioassay Data Sheet — Tue Apr 8 01:48:13 2008
Procedure ID & Rev: WCP-55 03/07/2002 — Software Version: GWAS v2.3bGEN

Drum ID	: LL85101617	Gross Weight (kg)	: 84.6
Sequence Number	: 2665	Fill Height (%)	: 100.0
Assay Date	: 04/08/08 12:36:51	Density (g/cc)	: 0.29
		Net Weight (kg)	: 60.80
Batch Number	:	Waste Matrix Code	:
Site ID	:	TRUCON	:

	Errors at 1.00 Sigma		
TRU Alpha Activity Concentration:	6.72e-06	+/- 9.36e-07	Ci/g
Total Pu-239 Equiv Activity:	3.93e-01	+/- 5.31e-02	Ci
Total Pu-239 Fissile Gram Equiv:	2.99e+00	+/- 4.82e-01	g
Decay Heat:	1.34e-02	+/- 1.88e-03	W
Total Pu Mass:	2.07e+00	+/- 4.20e-01	g
TMU:	21.78%		
Waste Classification:	TRU		

Isotopics Data

Measured Isotope	MGA Report Weight %	MGA Report % Err (1.00 Sigma)
Pu-238	6.37e-01	1.52e+00
Pu-239	9.30e+01	2.04e-01
Pu-240	6.19e+00	3.00e+00
Pu-241	1.11e-01	3.35e+00
Pu-242	3.52e-02	1.10e+01
Am-241	6.36e-01	1.66e+00
Am-243	0.00e+00	0.00e+00
Np-237	0.00e+00	0.00e+00
U-235	5.66e+01	5.61e+00

Activity Errors

Isotope	Isotope Mass (g)	1.00 Sigma Error/Isotope Mass (g)	Alpha Activity/ Isotope (Ci)	1.00 Sigma Error/Isotope (Ci)	MDA (g)
Pu-238	1.32e-02	2.88e-03	2.26e-01	4.92e-02	7.37e-04
Pu-239	1.92e+00	4.19e-01	1.19e-01	2.60e-02	6.24e-02
Pu-240	1.28e-01	2.81e-02	2.90e-02	6.39e-03	0.00e+00
Pu-241	2.29e-03	5.05e-04	2.37e-01	5.22e-02	4.99e-04
Pu-242	7.28e-04	1.78e-04	2.86e-06	6.98e-07	0.00e+00
Am-241	1.02e-02	2.83e-03	3.48e-02	9.68e-03	3.36e-03
Am-243	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
Np-237	1.07e-03	2.62e-04	7.54e-07	1.85e-07	2.18e-04
U-235	1.06e+00	2.39e-01	2.29e-06	5.16e-07	6.06e-02
*U-238	<LLD	0.00e+00	0.00e+00	0.00e+00	1.85e+01
*U-233	<LLD	0.00e+00	0.00e+00	0.00e+00	4.71e-01
CS-137	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
U-234	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
SR-90	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00

* = Activity/Mass below detectable limit.

Operator Signature — Date

Robert J Haslett Jr — 5-1-08

Reviewer Signature — Date

AUTOMATED INDEPENDENT TECHNICAL REVIEW BASED ON WCP-55 03/07/2002

Software Version: GWAS v2.3bGEN
Counter Number: SGS
Data Review for Container: LL85101617
Item Description Code: \Count Type: DEBRIS
Sequence Number: 2665
Assayed on: 04/08/08 12:36:51
Report Generated: 04/08/08 13:47:57
AITR Version 1.4

Section 1 MGA Analysis Review Using MGA Isotopics

Pu-240 Wt Pct <6.19> +/- 2 Sigma error <0.37>
is within limits
Pu-240 Wt Pct error <3.00> is within limits
Pu-238 Wt Pct error <1.52> is within limits
QFIT <1.00> is within limits

Section 2 - CONTAINER DENSITY REVIEW

Container density <0.292> g/cc is within UPPER and LOWER limits

Section 3 - SELF-ABSORPTION REVIEW

Pu-239/Pu-239a ratio <9.59e-01> is within limits

Section 4 - PULSER REVIEW

DEAD TIME percentage <1.06> is acceptable in Segment 1
Pulser value <0.99> is within range in Segment 1
DEAD TIME percentage <1.38> is acceptable in Segment 2
Pulser value <0.99> is within range in Segment 2
DEAD TIME percentage <1.50> is acceptable in Segment 3
Pulser value <0.99> is within range in Segment 3
DEAD TIME percentage <1.02> is acceptable in Segment 4
Pulser value <0.99> is within range in Segment 4
DEAD TIME percentage <0.63> is acceptable in Segment 5
Pulser value <0.98> is within range in Segment 5
DEAD TIME percentage <0.60> is acceptable in Segment 6
Pulser value <0.98> is within range in Segment 6
DEAD TIME percentage <0.60> is acceptable in Segment 7
Pulser value <0.99> is within range in Segment 7
DEAD TIME percentage <0.68> is acceptable in Segment 8
Pulser value <0.98> is within range in Segment 8
DEAD TIME percentage <0.83> is acceptable in Segment 9
Pulser value <0.98> is within range in Segment 9
DEAD TIME percentage <0.89> is acceptable in Segment 10
Pulser value <0.99> is within range in Segment 10
DEAD TIME percentage <0.98> is acceptable in Segment 11
Pulser value <0.99> is within range in Segment 11
DEAD TIME percentage <1.11> is acceptable in Segment 12
Pulser value <0.99> is within range in Segment 12
DEAD TIME percentage <0.98> is acceptable in Segment 13
Pulser value <0.99> is within range in Segment 13
DEAD TIME percentage <0.71> is acceptable in Segment 14
Pulser value <0.99> is within range in Segment 14
DEAD TIME percentage <0.58> is acceptable in Segment 15
Pulser value <0.98> is within range in Segment 15
DEAD TIME percentage <0.54> is acceptable in Segment 16
Pulser value <0.99> is within range in Segment 16

Section 5 - TRANSMISSION REVIEW

Transmission results are acceptable in Segment 1
Transmission results are acceptable in Segment 2
Transmission results are acceptable in Segment 3
Transmission results are acceptable in Segment 4
Transmission results are acceptable in Segment 5
Transmission results are acceptable in Segment 6
Transmission results are acceptable in Segment 7

Transmission results are acceptable in Segment 8
Transmission results are acceptable in Segment 9
Transmission results are acceptable in Segment 10
Transmission results are acceptable in Segment 11
Transmission results are acceptable in Segment 12
Transmission results are acceptable in Segment 13
Transmission results are acceptable in Segment 14
Transmission results are acceptable in Segment 15
Transmission results are acceptable in Segment 16

Section 6 - REDUCED CHI SQUARED FIT REVIEW

All energy peaks within <3.00e+00> RCHISQ limit

Section 7 - FGE MASS REVIEW

FGE Mass <3.48> is within limits

Section 8 - PERCENT FULL REVIEW

Percent Full <100.0> is above lower limit <30.0>

Section 9 - IDC COUNT TYPE REVIEW

REVIEW IDC is not available

Section 10 - AM-241 & NP-237 INTERFERENCE REVIEW

REVIEW Am-241 ratio <189.02> is below lower limit <200.00> OK
Np-237 ratio <1800.09> is above lower limit <125.00>

Section 11 - PU-239 CALIBRATION RANGE REVIEW

Pu-239 <1.92> is within limits

Section 12 - CS-137 INTERFERENCE REVIEW

Am-241D > Am-241A: Calculation not performed OK. Checked.

Independent Reviewer: Robert J Haskett Jr Date: 5-1-08

INDEPENDENT TECHNICAL REVIEW COMMENT SHEET

Counter Number: SGS
Data Review for Container: LL85101617
Item Description Code:
Sequence Number: 2665
Assayed on: 04/08/08 12:36:51
AITR Version 1.4

Comments	Disposition
SECTION 9 - IDC COUNT TYPE IDC is not available.	N/A
SECTION 10 - AM-241 & NP-237 INTERFERENCE TEST Possible Am-241 interference with 129 KeV peak.	Ok . Checked.

Technical Reviewer: Robert J Haskell Date: 5-1-08

****
***** M G A R E P O R T *****
****

Report generated on: 4-08-08 1:33:23 PM

MGA version: MGA V9.5 CI

Spectrum ID: 11202665.CNF Sens : 30.0% LT: 55.5 Mins DT: 0.51
Measurement date: 4-08-08 Declared date: 4-08-08

Sample ID: LL85101617 Detector: Total counts: 5.522E+05

Pu g/cm2 = 0.0962 Cd g/cm2 = 1.5901 FWHM at 122 keV = 617 eV
QFIT = 1.00 FWHM at 208 keV = 788 eV
NQFIT = 1.00

Isotope	Relative to Pu-239	%* Err	% Err	Relative to Pu-241	%* Err	Isotope analysis at Meas. date % weight	Meas. date %Err	Decl. date % weight	Decl. date %Err
Pu-238	0.006843	1.6	1.0	5.7462	3.1	0.63660	1.52	0.63660	1.52
Pu-239	1.000000	0.0	1.4	839.7252	3.4	93.03094	0.20	93.03094	0.20
Pu-240	0.066499	3.2	2.9	55.8410	4.2	6.18648	3.00	6.18648	3.00
Pu-241	0.001191	3.4	3.1	1.0000	0.0	0.11079	3.35	0.11079	3.35
Pu-242	(New alg.)			0.3176	(11)	0.03519	(11)	0.03519	(11)
Am-241	0.006841	1.7	1.0	5.7442	3.3	0.63639	1.66	0.63639	1.66
U-235	0.608352	5.5	5.6			56.59558	5.61	56.59558	5.61

Pu-240 effective (meas. date) = 7.850 +/- 2.73%
Am-241 separated about 39.656 +/- 0.430 years ago
Am/Pu-241 weight ratio = 5.74422 +/- 3.23%

Messages :

Lead x-rays detected.
Error in GFIT routine : probable weak peak in location 2.
17 MGA parameter(s) defaulted, starting from parameter 8.

Notes : * = Error in ratio
1.000 sigma errors

Gamma Waste Assay

Sample Information

File Name: C:\WAS\DATA\2700\11102665.S11
Sample ID: LL85101617 Count Sequence Number: 2665
Assay Start: 4-08-08 12:36:53 PM
Description 1:
Description 2:
Location:
Comment:
Waste Type:
Weight: Gross: 84600.0 g Net: 60800.0 g
Density: 0.292 g /ml

Container Type: 55 Gal Galv 23.8
Container: Volume: 208000. ml Full: 100.0 %

System Configuration

Counter ID Number: SGS
Arrangement Description: SGS
Segments: Number: 16 Offset: 0
Scanning Platform: Start: 934 mm Delta: -51 mm
Count Type: 55 Gal Galv 23.8
Collimator/Geometry Setting: 0
Transmission Mode: Two pass
Transmission Source: 0

Errors quoted at 1.000 sigma
Reference Source Date: Reference Source Rate: 1.00E+02 cps
Geometric Correction Factor(SWCONTGCF): 0.760
Date of efficiency calibration approval: 8-27-2003 2:05:34 PM
Mu Factors response file: Lucite
Transmission Calib. Time: 12-10-2007 3:51:07 PM 28849

Reviewed by: Robert J Hazlett Jr Date: 5-1-08

Segment Results

Segment: 1 Detector: DET01 (# 1) Position: 1

Elapsed Live Time: 113.78 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.052 +/- 0.0051
SE-75	264.65	0.000 +/- 0.0000	0.097 +/- 0.0026
SE-75	279.53	0.000 +/- 0.0000	0.096 +/- 0.0032
SE-75	400.65	0.000 +/- 0.0000	0.114 +/- 0.0047

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	50.48	6.05E+00 +/- 6.97E-01	3.25E+00	9.39E-07 +/- 2.68E-06
	2	60.17	1.02E+02 +/- 1.62E+00	3.03E+00	6.34E-06 +/- 1.17E-05
	3	100.25	1.39E+01 +/- 7.15E-01	2.65E+00	1.56E-04 +/- 4.09E-05
	4	103.80	3.48E+00 +/- 3.92E-01	2.63E+00	1.76E-04 +/- 3.70E-05
	5	111.73	8.22E-01 +/- 3.06E-01	2.60E+00	2.19E-04 +/- 2.67E-05
M	6	125.97	1.35E+00 +/- 1.66E-01	2.54E+00	2.87E-04 +/- 1.88E-05
m	7	130.02	5.30E+00 +/- 3.67E-01	2.53E+00	3.04E-04 +/- 2.20E-05
	8	152.68	4.06E+00 +/- 2.47E-01	2.45E+00	3.67E-04 +/- 4.47E-05
	9	185.71	2.06E-01 +/- 1.38E-01	2.34E+00	3.91E-04 +/- 5.22E-05
	10	204.13	5.60E-01 +/- 1.28E-01	2.29E+00	3.83E-04 +/- 4.71E-05
	11	208.68	1.61E+00 +/- 1.86E-01	2.27E+00	3.80E-04 +/- 4.53E-05
	12	239.28	2.12E-01 +/- 9.50E-02	2.19E+00	3.51E-04 +/- 3.24E-05
M	13	333.43	4.66E-01 +/- 1.04E-01	2.09E+00	2.57E-04 +/- 1.33E-05
m	14	336.47	3.40E-01 +/- 8.31E-02	2.09E+00	2.54E-04 +/- 1.33E-05
	15	345.98	2.56E-01 +/- 9.02E-02	2.08E+00	2.47E-04 +/- 1.34E-05
	16	375.66	1.40E+00 +/- 1.39E-01	2.06E+00	2.25E-04 +/- 1.39E-05
	17	393.59	4.35E-01 +/- 8.85E-02	2.05E+00	2.14E-04 +/- 1.43E-05
	18	413.70	1.13E+00 +/- 1.12E-01	2.02E+00	2.03E-04 +/- 1.44E-05
	19	452.28	1.89E-01 +/- 5.27E-02	1.98E+00	1.84E-04 +/- 1.43E-05
	20	511.51	1.78E-01 +/- 8.45E-02	1.91E+00	1.62E-04 +/- 1.31E-05
	21	584.07	6.79E-02 +/- 4.27E-02	1.84E+00	1.42E-04 +/- 1.10E-05
	22	722.01	6.16E-02 +/- 4.10E-02	1.74E+00	1.18E-04 +/- 7.51E-06
	23	964.13	4.33E-02 +/- 2.32E-02	1.61E+00	9.44E-05 +/- 5.09E-06
	24	1112.12	1.73E-02 +/- 1.23E-02	1.56E+00	8.48E-05 +/- 4.39E-06
	25	2236.00	1.00E+02 +/- 1.50E+00	1.39E+00	3.40E-05 +/- 2.15E-05

Segment: 2 Detector: DET01 (# 1) Position: 2

Elapsed Live Time: 113.41 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.031 +/- 0.0046
SE-75	264.65	0.000 +/- 0.0000	0.070 +/- 0.0017
SE-75	279.53	0.000 +/- 0.0000	0.073 +/- 0.0025
SE-75	400.65	0.000 +/- 0.0000	0.105 +/- 0.0042

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.95	4.00E-01 +/- 1.31E-01	4.10E+00	1.86E-05 +/- 1.16E-04
	2	50.32	8.77E+00 +/- 8.83E-01	3.76E+00	8.48E-05 +/- 2.13E-04
	3	60.19	1.63E+02 +/- 2.38E+00	3.47E+00	1.33E-04 +/- 2.14E-04
	4	100.33	2.04E+01 +/- 7.83E-01	3.01E+00	3.13E-04 +/- 7.17E-05
	5	111.77	9.00E-01 +/- 3.76E-01	2.95E+00	3.48E-04 +/- 3.76E-05
	6	115.70	6.69E-01 +/- 3.63E-01	2.93E+00	3.59E-04 +/- 2.94E-05
M	7	126.05	2.46E+00 +/- 2.12E-01	2.88E+00	3.82E-04 +/- 2.26E-05
m	8	130.02	8.09E+00 +/- 4.49E-01	2.87E+00	3.89E-04 +/- 2.53E-05
	9	144.84	3.71E-01 +/- 2.39E-01	2.80E+00	4.11E-04 +/- 3.93E-05
	10	152.68	5.31E+00 +/- 2.94E-01	2.76E+00	4.18E-04 +/- 4.48E-05
	11	208.70	1.50E+00 +/- 2.18E-01	2.52E+00	4.25E-04 +/- 4.49E-05
	12	239.20	4.86E-01 +/- 1.30E-01	2.41E+00	4.10E-04 +/- 3.37E-05
	13	300.10	3.96E-01 +/- 1.25E-01	2.26E+00	3.67E-04 +/- 1.80E-05
	14	311.90	4.14E-01 +/- 1.15E-01	2.24E+00	3.58E-04 +/- 1.69E-05
M	15	333.48	8.31E-01 +/- 1.35E-01	2.20E+00	3.42E-04 +/- 1.64E-05
m	16	336.17	3.88E-01 +/- 8.17E-02	2.20E+00	3.40E-04 +/- 1.64E-05
	17	345.80	6.08E-01 +/- 1.09E-01	2.18E+00	3.34E-04 +/- 1.66E-05
	18	369.48	1.60E-01 +/- 1.07E-01	2.14E+00	3.17E-04 +/- 1.73E-05
	19	375.85	1.61E+00 +/- 1.93E-01	2.13E+00	3.13E-04 +/- 1.76E-05
M	20	380.97	2.04E-01 +/- 8.26E-02	2.12E+00	3.10E-04 +/- 1.77E-05
m	21	383.45	2.28E-01 +/- 8.10E-02	2.11E+00	3.08E-04 +/- 1.78E-05
	22	393.83	8.15E-01 +/- 1.11E-01	2.10E+00	3.01E-04 +/- 1.81E-05
	23	413.70	1.65E+00 +/- 1.46E-01	2.07E+00	2.89E-04 +/- 1.85E-05
	24	423.42	1.03E-01 +/- 5.09E-02	2.06E+00	2.83E-04 +/- 1.86E-05
	25	452.34	3.13E-01 +/- 6.45E-02	2.02E+00	2.67E-04 +/- 1.85E-05
	26	511.81	2.54E-01 +/- 6.03E-02	1.95E+00	2.38E-04 +/- 1.72E-05
	27	584.13	2.77E-01 +/- 7.67E-02	1.88E+00	2.10E-04 +/- 1.45E-05
	28	662.42	9.18E-02 +/- 4.05E-02	1.81E+00	1.86E-04 +/- 1.15E-05
	29	722.01	8.74E-02 +/- 3.02E-02	1.77E+00	1.71E-04 +/- 9.64E-06
	30	778.90	4.09E-02 +/- 2.45E-02	1.73E+00	1.59E-04 +/- 8.28E-06
	31	964.13	2.10E-02 +/- 1.74E-02	1.64E+00	1.32E-04 +/- 6.07E-06
	32	1112.12	1.74E-02 +/- 1.23E-02	1.58E+00	1.18E-04 +/- 5.17E-06

33	1408.01	3.47E-02	+/- 1.74E-02	1.51E+00	1.02E-04	+/- 6.88E-06
34	2236.00	1.00E+02	+/- 1.50E+00	1.41E+00	9.73E-05	+/- 5.41E-05
35	2616.83	6.03E-02	+/- 2.66E-02	1.39E+00	1.05E-04	+/- 9.66E-05

Segment: 3 Detector: DET01 (# 1) Position: 3

Elapsed Live Time: 113.28 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.104 +/- 0.0068
SE-75	264.65	0.000 +/- 0.0000	0.198 +/- 0.0047
SE-75	279.53	0.000 +/- 0.0000	0.207 +/- 0.0057
SE-75	400.65	0.000 +/- 0.0000	0.250 +/- 0.0080

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.84	3.31E-01 +/- 1.19E-01	3.51E+00	3.30E-06 +/- 3.19E-06
	2	50.25	1.07E+01 +/- 1.02E+00	2.63E+00	3.96E-05 +/- 1.91E-05
	3	60.18	1.97E+02 +/- 2.80E+00	2.46E+00	8.08E-05 +/- 2.79E-05
	4	100.30	2.12E+01 +/- 9.25E-01	2.19E+00	3.01E-04 +/- 3.00E-05
	5	111.70	7.44E-01 +/- 3.86E-01	2.16E+00	3.54E-04 +/- 2.60E-05
	6	115.67	8.55E-01 +/- 3.76E-01	2.15E+00	3.71E-04 +/- 2.48E-05
M	7	125.94	2.55E+00 +/- 2.12E-01	2.12E+00	4.08E-04 +/- 2.27E-05
m	8	129.98	8.84E+00 +/- 4.58E-01	2.11E+00	4.20E-04 +/- 2.22E-05
	9	152.68	5.98E+00 +/- 3.08E-01	2.03E+00	4.70E-04 +/- 2.29E-05
	10	161.57	5.79E-01 +/- 2.05E-01	2.00E+00	4.81E-04 +/- 2.38E-05
	11	208.70	1.87E+00 +/- 2.58E-01	1.87E+00	4.92E-04 +/- 2.59E-05
	12	239.29	5.44E-01 +/- 1.55E-01	1.79E+00	4.73E-04 +/- 2.42E-05
	13	311.90	5.86E-01 +/- 1.18E-01	1.69E+00	4.04E-04 +/- 1.79E-05
M	14	333.49	8.82E-01 +/- 1.45E-01	1.67E+00	3.84E-04 +/- 1.63E-05
m	15	336.56	3.53E-01 +/- 8.35E-02	1.67E+00	3.81E-04 +/- 1.61E-05
	16	345.69	5.44E-01 +/- 1.28E-01	1.66E+00	3.73E-04 +/- 1.56E-05
	17	369.02	3.12E-01 +/- 1.36E-01	1.64E+00	3.52E-04 +/- 1.43E-05
	18	375.75	1.57E+00 +/- 1.90E-01	1.64E+00	3.46E-04 +/- 1.41E-05
M	19	380.87	2.02E-01 +/- 6.74E-02	1.63E+00	3.42E-04 +/- 1.38E-05
m	20	383.51	3.01E-01 +/- 8.77E-02	1.63E+00	3.40E-04 +/- 1.37E-05
	21	393.69	6.06E-01 +/- 1.04E-01	1.62E+00	3.31E-04 +/- 1.34E-05
	22	413.70	1.73E+00 +/- 1.41E-01	1.61E+00	3.16E-04 +/- 1.28E-05
	23	452.07	1.58E-01 +/- 6.25E-02	1.58E+00	2.89E-04 +/- 1.20E-05
	24	511.78	4.32E-01 +/- 9.19E-02	1.54E+00	2.55E-04 +/- 1.13E-05
	25	583.99	3.19E-01 +/- 6.47E-02	1.50E+00	2.22E-04 +/- 1.05E-05
	26	662.42	9.82E-02 +/- 4.91E-02	1.47E+00	1.95E-04 +/- 9.62E-06
	27	722.01	6.93E-02 +/- 4.01E-02	1.44E+00	1.79E-04 +/- 8.87E-06

28	1001.03	4.39E-02	+/- 2.36E-02	1.36E+00	1.35E-04	+/- 5.37E-06
29	1408.01	8.71E-03	+/- 8.71E-03	1.30E+00	1.15E-04	+/- 7.14E-06
30	2236.00	1.00E+02	+/- 1.50E+00	1.24E+00	1.32E-04	+/- 3.24E-05

Segment: 4 Detector: DET01 (# 1) Position: 4

Elapsed Live Time: 113.83 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.037 +/- 0.0037
SE-75	264.65	0.000 +/- 0.0000	0.084 +/- 0.0023
SE-75	279.53	0.000 +/- 0.0000	0.088 +/- 0.0031
SE-75	400.65	0.000 +/- 0.0000	0.116 +/- 0.0048

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	50.03	4.43E+00 +/- 6.67E-01	3.59E+00	1.05E-05 +/- 2.65E-05
	2	60.19	9.36E+01 +/- 1.57E+00	3.31E+00	3.63E-05 +/- 5.77E-05
	3	100.27	1.05E+01 +/- 6.16E-01	2.88E+00	2.69E-04 +/- 6.14E-05
	4	103.83	2.27E+00 +/- 3.57E-01	2.86E+00	2.91E-04 +/- 5.33E-05
	5	115.32	5.20E-01 +/- 2.86E-01	2.81E+00	3.53E-04 +/- 2.97E-05
M	6	125.96	1.17E+00 +/- 1.49E-01	2.76E+00	4.00E-04 +/- 2.37E-05
m	7	129.99	3.56E+00 +/- 3.05E-01	2.74E+00	4.14E-04 +/- 2.68E-05
	8	152.68	2.49E+00 +/- 2.14E-01	2.64E+00	4.70E-04 +/- 4.99E-05
	9	208.69	7.09E-01 +/- 1.82E-01	2.40E+00	4.80E-04 +/- 5.05E-05
	10	239.33	4.43E-01 +/- 9.95E-02	2.30E+00	4.53E-04 +/- 3.73E-05
	11	311.90	1.76E-01 +/- 9.58E-02	2.15E+00	3.77E-04 +/- 1.75E-05
	12	333.63	3.65E-01 +/- 1.12E-01	2.12E+00	3.57E-04 +/- 1.65E-05
	13	345.69	2.39E-01 +/- 9.23E-02	2.10E+00	3.46E-04 +/- 1.65E-05
	14	368.95	2.41E-01 +/- 8.67E-02	2.07E+00	3.26E-04 +/- 1.70E-05
	15	375.80	3.59E-01 +/- 1.24E-01	2.06E+00	3.21E-04 +/- 1.71E-05
	16	393.57	3.80E-01 +/- 9.43E-02	2.04E+00	3.08E-04 +/- 1.75E-05
	17	413.70	6.10E-01 +/- 8.60E-02	2.01E+00	2.94E-04 +/- 1.78E-05
	18	583.66	1.18E-01 +/- 4.03E-02	1.83E+00	2.13E-04 +/- 1.40E-05
	19	662.42	6.36E-02 +/- 2.91E-02	1.77E+00	1.90E-04 +/- 1.13E-05
	20	722.01	4.01E-02 +/- 2.48E-02	1.73E+00	1.77E-04 +/- 9.59E-06
	21	778.90	4.99E-02 +/- 3.88E-02	1.70E+00	1.66E-04 +/- 8.40E-06
	22	1408.01	8.67E-03 +/- 8.67E-03	1.48E+00	1.06E-04 +/- 7.05E-06
	23	2236.00	1.00E+02 +/- 1.50E+00	1.39E+00	7.00E-05 +/- 3.84E-05

Segment: 5 Detector: DET01 (# 1) Position: 5

Elapsed Live Time: 114.27 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.075 +/- 0.0057
SE-75	264.65	0.000 +/- 0.0000	0.126 +/- 0.0032
SE-75	279.53	0.000 +/- 0.0000	0.129 +/- 0.0040
SE-75	400.65	0.000 +/- 0.0000	0.166 +/- 0.0059

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	60.17	1.49E+01 +/- 5.49E-01	2.73E+00	4.80E-05 +/- 8.23E-05
M	2	100.20	1.47E+00 +/- 2.26E-01	2.41E+00	2.82E-04 +/- 6.87E-05
m	3	103.55	5.04E-01 +/- 1.16E-01	2.39E+00	3.01E-04 +/- 5.94E-05
	4	129.29	4.68E-01 +/- 1.39E-01	2.31E+00	4.07E-04 +/- 2.65E-05
	5	152.68	2.68E-01 +/- 1.62E-01	2.24E+00	4.54E-04 +/- 5.17E-05
	6	413.70	1.29E-01 +/- 4.75E-02	1.82E+00	2.86E-04 +/- 1.90E-05
	7	722.01	8.61E-03 +/- 1.94E-02	1.59E+00	1.77E-04 +/- 1.01E-05
	8	2236.00	1.00E+02 +/- 1.49E+00	1.32E+00	5.76E-05 +/- 3.29E-05

Segment: 6 Detector: DET01 (# 1) Position: 6

Elapsed Live Time: 114.31 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.081 +/- 0.0060
SE-75	264.65	0.000 +/- 0.0000	0.153 +/- 0.0037
SE-75	279.53	0.000 +/- 0.0000	0.162 +/- 0.0047
SE-75	400.65	0.000 +/- 0.0000	0.193 +/- 0.0066

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.77	9.57E-02 +/- 5.90E-02	3.86E+00	4.28E-07 +/- 2.73E-06
2	49.24	9.81E-01 +/- 2.99E-01	2.88E+00	1.96E-05 +/- 5.24E-05
3	60.10	3.95E+00 +/- 3.28E-01	2.66E+00	6.05E-05 +/- 9.91E-05
4	352.82	6.15E-02 +/- 3.54E-02	1.79E+00	3.50E-04 +/- 1.76E-05
5	413.70	6.72E-02 +/- 4.65E-02	1.74E+00	3.09E-04 +/- 1.95E-05
6	964.13	6.03E-02 +/- 2.28E-02	1.45E+00	1.51E-04 +/- 6.52E-06
7	1001.03	5.30E-02 +/- 2.98E-02	1.44E+00	1.45E-04 +/- 6.25E-06
8	1085.91	2.01E-02 +/- 1.78E-02	1.42E+00	1.34E-04 +/- 5.68E-06
9	1408.01	3.44E-02 +/- 1.72E-02	1.36E+00	9.88E-05 +/- 6.79E-06
10	2236.00	1.00E+02 +/- 1.49E+00	1.29E+00	4.34E-05 +/- 2.42E-05

Segment: 7 Detector: DET01 (# 1) Position: 7

Elapsed Live Time: 114.31 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.123 +/- 0.0073
SE-75	264.65	0.000 +/- 0.0000	0.194 +/- 0.0046
SE-75	279.53	0.000 +/- 0.0000	0.196 +/- 0.0054
SE-75	400.65	0.000 +/- 0.0000	0.245 +/- 0.0078

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.18	5.53E+00 +/- 3.42E-01	2.33E+00	1.60E-05 +/- 2.39E-05
2	511.52	2.54E-01 +/- 5.89E-02	1.55E+00	2.57E-04 +/- 1.71E-05
3	662.42	5.17E-02 +/- 2.11E-02	1.47E+00	2.03E-04 +/- 1.17E-05
4	778.90	4.09E-02 +/- 2.41E-02	1.43E+00	1.77E-04 +/- 8.73E-06
5	2236.00	1.00E+02 +/- 1.49E+00	1.25E+00	5.07E-05 +/- 2.69E-05

Segment: 8 Detector: DET01 (# 1) Position: 8

Elapsed Live Time: 114.22 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.160 +/- 0.0079
SE-75	264.65	0.000 +/- 0.0000	0.211 +/- 0.0037
SE-75	279.53	0.000 +/- 0.0000	0.219 +/- 0.0049
SE-75	400.65	0.000 +/- 0.0000	0.271 +/- 0.0073

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	60.19	2.26E+01 +/- 6.26E-01	2.13E+00	1.10E-04 +/- 3.84E-05
	2	99.54	7.73E-01 +/- 2.81E-01	1.93E+00	3.25E-04 +/- 3.30E-05
	3	111.87	3.59E-01 +/- 1.58E-01	1.90E+00	3.76E-04 +/- 2.72E-05
M	4	125.99	2.48E-01 +/- 8.14E-02	1.87E+00	4.19E-04 +/- 2.31E-05
m	5	130.02	1.72E+00 +/- 2.27E-01	1.86E+00	4.29E-04 +/- 2.26E-05
	6	148.57	2.34E-01 +/- 1.47E-01	1.83E+00	4.62E-04 +/- 2.28E-05
	7	204.61	1.66E-01 +/- 9.96E-02	1.76E+00	4.76E-04 +/- 2.61E-05
	8	311.90	1.15E-01 +/- 8.03E-02	1.65E+00	3.88E-04 +/- 1.78E-05
	9	333.37	1.31E-01 +/- 6.05E-02	1.63E+00	3.69E-04 +/- 1.62E-05
	10	345.61	2.02E-01 +/- 7.38E-02	1.62E+00	3.59E-04 +/- 1.54E-05
	11	375.91	2.88E-01 +/- 8.37E-02	1.60E+00	3.34E-04 +/- 1.38E-05
	12	413.70	4.13E-01 +/- 7.43E-02	1.57E+00	3.06E-04 +/- 1.25E-05
	13	511.51	5.25E-01 +/- 7.75E-02	1.51E+00	2.50E-04 +/- 1.09E-05
	14	662.42	7.58E-02 +/- 2.96E-02	1.44E+00	1.93E-04 +/- 9.41E-06
	15	867.39	3.45E-02 +/- 1.72E-02	1.37E+00	1.51E-04 +/- 6.88E-06
	16	1408.01	2.80E-02 +/- 2.03E-02	1.28E+00	1.13E-04 +/- 7.00E-06
	17	1461.93	6.03E-02 +/- 2.28E-02	1.27E+00	1.12E-04 +/- 7.92E-06
	18	2236.00	1.00E+02 +/- 1.49E+00	1.23E+00	1.19E-04 +/- 2.92E-05

Segment: 9 Detector: DET01 (# 1) Position: 9

Elapsed Live Time: 114.04 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.060 +/- 0.0049
SE-75	264.65	0.000 +/- 0.0000	0.109 +/- 0.0028
SE-75	279.53	0.000 +/- 0.0000	0.113 +/- 0.0036
SE-75	400.65	0.000 +/- 0.0000	0.148 +/- 0.0055

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.92	2.65E-01 +/- 1.09E-01	4.10E+00	5.80E-09 +/- 3.51E-08
	2	49.91	1.81E+00 +/- 5.91E-01	3.14E+00	3.00E-06 +/- 7.45E-06
	3	60.19	5.03E+01 +/- 1.01E+00	2.91E+00	1.65E-05 +/- 2.58E-05
	4	99.43	3.49E+00 +/- 3.52E-01	2.56E+00	2.36E-04 +/- 5.57E-05
	5	111.74	6.65E-01 +/- 2.00E-01	2.51E+00	3.22E-04 +/- 3.46E-05
M	6	126.08	6.45E-01 +/- 1.16E-01	2.46E+00	4.05E-04 +/- 2.42E-05
m	7	130.00	4.64E+00 +/- 3.43E-01	2.44E+00	4.24E-04 +/- 2.73E-05
	8	204.18	3.86E-01 +/- 1.61E-01	2.21E+00	5.14E-04 +/- 5.34E-05
	9	208.72	8.48E-01 +/- 1.63E-01	2.20E+00	5.11E-04 +/- 5.15E-05
M	10	333.52	3.46E-01 +/- 9.72E-02	1.97E+00	3.59E-04 +/- 1.71E-05
m	11	336.40	1.76E-01 +/- 6.32E-02	1.97E+00	3.56E-04 +/- 1.71E-05
	12	345.80	3.36E-01 +/- 9.81E-02	1.96E+00	3.46E-04 +/- 1.72E-05
	13	375.76	7.20E-01 +/- 1.33E-01	1.92E+00	3.18E-04 +/- 1.78E-05
M	14	380.78	1.11E-01 +/- 9.75E-03	1.92E+00	3.14E-04 +/- 1.79E-05
m	15	383.41	1.65E-01 +/- 1.28E-02	1.91E+00	3.12E-04 +/- 1.80E-05
	16	393.59	2.98E-01 +/- 7.59E-02	1.90E+00	3.03E-04 +/- 1.81E-05
	17	413.70	7.47E-01 +/- 9.13E-02	1.88E+00	2.88E-04 +/- 1.83E-05
	18	452.54	1.07E-01 +/- 4.26E-02	1.84E+00	2.63E-04 +/- 1.81E-05
	19	511.84	5.72E-01 +/- 8.39E-02	1.78E+00	2.33E-04 +/- 1.66E-05
	20	662.42	9.50E-02 +/- 4.27E-02	1.67E+00	1.84E-04 +/- 1.12E-05
	21	722.01	5.94E-02 +/- 3.05E-02	1.64E+00	1.72E-04 +/- 9.44E-06
	22	778.90	2.59E-02 +/- 1.49E-02	1.61E+00	1.62E-04 +/- 8.21E-06
	23	1001.03	4.47E-02 +/- 2.83E-02	1.52E+00	1.35E-04 +/- 6.06E-06
	24	1085.91	2.59E-02 +/- 1.49E-02	1.49E+00	1.27E-04 +/- 5.58E-06
	25	1275.71	1.48E-01 +/- 3.74E-02	1.45E+00	1.13E-04 +/- 5.18E-06
	26	1408.01	8.63E-03 +/- 8.63E-03	1.42E+00	1.05E-04 +/- 6.90E-06
	27	2236.00	1.00E+02 +/- 1.49E+00	1.34E+00	6.12E-05 +/- 3.31E-05

Segment: 10 Detector: DET01 (# 1) Position: 10

Elapsed Live Time: 113.98 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.135 +/- 0.0075
SE-75	264.65	0.000 +/- 0.0000	0.205 +/- 0.0048
SE-75	279.53	0.000 +/- 0.0000	0.210 +/- 0.0057
SE-75	400.65	0.000 +/- 0.0000	0.260 +/- 0.0082

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	50.12	3.41E+00 +/- 5.47E-01	2.41E+00	8.45E-05 +/- 4.22E-05
2	60.19	6.29E+01 +/- 1.18E+00	2.26E+00	1.37E-04 +/- 4.88E-05
3	99.35	3.59E+00 +/- 3.99E-01	2.04E+00	3.30E-04 +/- 3.40E-05
4	111.70	6.71E-01 +/- 2.91E-01	2.00E+00	3.72E-04 +/- 2.73E-05
5	115.63	4.45E-01 +/- 2.82E-01	1.99E+00	3.83E-04 +/- 2.57E-05
6	125.81	3.16E-01 +/- 1.86E-01	1.97E+00	4.08E-04 +/- 2.28E-05
7	129.29	4.60E+00 +/- 3.22E-01	1.96E+00	4.15E-04 +/- 2.22E-05
8	208.69	6.71E-01 +/- 1.81E-01	1.81E+00	4.56E-04 +/- 2.51E-05
9	300.10	1.91E-01 +/- 9.38E-02	1.69E+00	3.96E-04 +/- 1.86E-05
10	311.90	2.48E-01 +/- 9.59E-02	1.67E+00	3.87E-04 +/- 1.76E-05
11	333.42	2.44E-01 +/- 1.05E-01	1.65E+00	3.71E-04 +/- 1.62E-05
12	345.76	4.12E-01 +/- 1.01E-01	1.64E+00	3.61E-04 +/- 1.54E-05
13	375.79	8.52E-01 +/- 1.39E-01	1.62E+00	3.40E-04 +/- 1.40E-05
14	393.42	3.73E-01 +/- 7.65E-02	1.60E+00	3.28E-04 +/- 1.34E-05
15	413.70	8.97E-01 +/- 1.04E-01	1.59E+00	3.15E-04 +/- 1.29E-05
16	452.16	8.71E-02 +/- 5.38E-02	1.56E+00	2.92E-04 +/- 1.22E-05
17	511.64	4.85E-01 +/- 7.26E-02	1.53E+00	2.62E-04 +/- 1.16E-05
18	662.42	6.10E-02 +/- 4.59E-02	1.45E+00	2.06E-04 +/- 1.03E-05
19	917.79	7.71E-02 +/- 2.92E-02	1.37E+00	1.52E-04 +/- 6.73E-06
20	1001.03	3.21E-02 +/- 2.54E-02	1.35E+00	1.41E-04 +/- 5.67E-06
21	1085.91	3.47E-02 +/- 1.73E-02	1.33E+00	1.31E-04 +/- 4.92E-06
22	1408.01	1.73E-02 +/- 1.23E-02	1.29E+00	1.09E-04 +/- 6.83E-06
23	2236.00	1.00E+02 +/- 1.50E+00	1.23E+00	9.04E-05 +/- 2.29E-05

Segment: 11 Detector: DET01 (# 1) Position: 11

Elapsed Live Time: 113.87 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.334 +/- 0.0130
SE-75	264.65	0.000 +/- 0.0000	0.432 +/- 0.0095
SE-75	279.53	0.000 +/- 0.0000	0.426 +/- 0.0103
SE-75	400.65	0.000 +/- 0.0000	0.491 +/- 0.0134

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.10	4.60E-01 +/- 1.17E-01	2.03E+00	1.32E-03 +/- 8.53E-03
	2	50.20	5.18E+00 +/- 7.01E-01	1.69E+00	5.98E-04 +/- 1.58E-03
	3	60.19	9.13E+01 +/- 1.51E+00	1.62E+00	5.03E-04 +/- 8.46E-04
	4	99.57	1.36E+00 +/- 5.82E-01	1.52E+00	4.09E-04 +/- 1.02E-04
	5	103.75	3.42E+00 +/- 3.41E-01	1.51E+00	4.07E-04 +/- 7.81E-05
	6	111.81	1.18E+00 +/- 2.84E-01	1.50E+00	4.03E-04 +/- 4.43E-05
M	7	125.97	1.14E+00 +/- 1.39E-01	1.48E+00	4.00E-04 +/- 2.37E-05
m	8	130.02	5.61E+00 +/- 3.75E-01	1.48E+00	3.99E-04 +/- 2.64E-05
	9	172.03	3.13E-01 +/- 1.68E-01	1.43E+00	3.95E-04 +/- 4.96E-05
	10	185.71	1.25E+00 +/- 1.68E-01	1.42E+00	3.93E-04 +/- 4.88E-05
	11	196.40	2.78E-01 +/- 1.42E-01	1.41E+00	3.91E-04 +/- 4.67E-05
	12	204.32	2.65E-01 +/- 1.61E-01	1.40E+00	3.89E-04 +/- 4.46E-05
	13	208.70	7.96E-01 +/- 1.89E-01	1.40E+00	3.88E-04 +/- 4.34E-05
	14	311.90	3.03E-01 +/- 1.03E-01	1.34E+00	3.53E-04 +/- 1.69E-05
	15	333.56	2.31E-01 +/- 1.02E-01	1.33E+00	3.43E-04 +/- 1.63E-05
	16	345.72	3.25E-01 +/- 8.27E-02	1.32E+00	3.38E-04 +/- 1.66E-05
	17	375.80	6.52E-01 +/- 1.64E-01	1.31E+00	3.25E-04 +/- 1.79E-05
M	18	381.00	2.53E-01 +/- 7.56E-02	1.30E+00	3.23E-04 +/- 1.81E-05
m	19	383.68	1.76E-01 +/- 5.82E-02	1.30E+00	3.21E-04 +/- 1.83E-05
	20	393.34	3.35E-01 +/- 9.15E-02	1.30E+00	3.17E-04 +/- 1.87E-05
	21	413.70	1.17E+00 +/- 1.17E-01	1.29E+00	3.08E-04 +/- 1.94E-05
	22	452.24	1.58E-01 +/- 5.35E-02	1.28E+00	2.92E-04 +/- 2.00E-05
	23	867.39	8.66E-03 +/- 8.66E-03	1.19E+00	1.63E-04 +/- 7.48E-06
	24	2236.00	1.00E+02 +/- 1.50E+00	1.12E+00	5.79E-05 +/- 3.30E-05

Segment: 12 Detector: DET01 (# 1) Position: 12

Elapsed Live Time: 113.72 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.255 +/- 0.0106
SE-75	264.65	0.000 +/- 0.0000	0.318 +/- 0.0071
SE-75	279.53	0.000 +/- 0.0000	0.330 +/- 0.0083
SE-75	400.65	0.000 +/- 0.0000	0.367 +/- 0.0106

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.08	3.14E-01 +/- 1.14E-01	2.34E+00	2.43E-09 +/- 1.49E-08
	2	50.29	5.75E+00 +/- 8.04E-01	1.89E+00	2.21E-06 +/- 5.52E-06
	3	60.19	1.22E+02 +/- 1.89E+00	1.80E+00	1.30E-05 +/- 2.08E-05
	4	99.59	1.83E+00 +/- 6.40E-01	1.66E+00	2.34E-04 +/- 5.57E-05
	5	103.74	4.00E+00 +/- 3.77E-01	1.65E+00	2.67E-04 +/- 4.92E-05
	6	111.73	1.46E+00 +/- 2.87E-01	1.64E+00	3.26E-04 +/- 3.51E-05
M	7	125.89	1.50E+00 +/- 1.58E-01	1.62E+00	4.16E-04 +/- 2.45E-05
m	8	129.98	5.88E+00 +/- 3.89E-01	1.62E+00	4.37E-04 +/- 2.82E-05
	9	152.68	5.27E-01 +/- 1.94E-01	1.59E+00	5.19E-04 +/- 5.50E-05
	10	164.86	8.01E-01 +/- 2.33E-01	1.58E+00	5.39E-04 +/- 6.24E-05
	11	185.71	3.05E+00 +/- 2.66E-01	1.56E+00	5.47E-04 +/- 6.36E-05
	12	208.74	1.28E+00 +/- 1.93E-01	1.54E+00	5.31E-04 +/- 5.52E-05
	13	244.70	2.06E-01 +/- 1.41E-01	1.51E+00	4.83E-04 +/- 3.71E-05
	14	264.66	1.79E-01 +/- 1.01E-01	1.50E+00	4.54E-04 +/- 2.86E-05
	15	300.10	1.48E-01 +/- 9.48E-02	1.47E+00	4.04E-04 +/- 1.94E-05
	16	311.90	4.13E-01 +/- 9.69E-02	1.46E+00	3.88E-04 +/- 1.81E-05
M	17	333.51	4.73E-01 +/- 1.00E-01	1.46E+00	3.62E-04 +/- 1.72E-05
m	18	336.42	3.35E-01 +/- 7.96E-02	1.45E+00	3.59E-04 +/- 1.72E-05
	19	345.87	4.52E-01 +/- 9.21E-02	1.45E+00	3.49E-04 +/- 1.72E-05
	20	369.13	1.67E-01 +/- 8.69E-02	1.44E+00	3.25E-04 +/- 1.77E-05
	21	375.74	1.09E+00 +/- 1.62E-01	1.44E+00	3.19E-04 +/- 1.78E-05
M	22	380.94	1.36E-01 +/- 9.01E-02	1.44E+00	3.14E-04 +/- 1.80E-05
m	23	383.49	2.17E-01 +/- 1.32E-01	1.44E+00	3.12E-04 +/- 1.80E-05
	24	393.54	4.75E-01 +/- 8.52E-02	1.43E+00	3.03E-04 +/- 1.82E-05
	25	413.70	1.32E+00 +/- 1.16E-01	1.42E+00	2.87E-04 +/- 1.84E-05
	26	452.20	1.69E-01 +/- 4.99E-02	1.40E+00	2.62E-04 +/- 1.82E-05
	27	511.49	1.30E-01 +/- 6.62E-02	1.38E+00	2.31E-04 +/- 1.67E-05
	28	662.42	6.11E-02 +/- 3.98E-02	1.33E+00	1.82E-04 +/- 1.13E-05
	29	1085.91	2.60E-02 +/- 1.50E-02	1.24E+00	1.28E-04 +/- 5.60E-06
	30	1333.34	6.94E-02 +/- 2.46E-02	1.22E+00	1.12E-04 +/- 5.82E-06
	31	2236.00	1.00E+02 +/- 1.50E+00	1.17E+00	6.48E-05 +/- 3.54E-05

Segment: 13 Detector: DET01 (# 1) Position: 13

Elapsed Live Time: 113.87 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.275 +/- 0.0115
SE-75	264.65	0.000 +/- 0.0000	0.343 +/- 0.0077
SE-75	279.53	0.000 +/- 0.0000	0.353 +/- 0.0088
SE-75	400.65	0.000 +/- 0.0000	0.406 +/- 0.0114

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.04	2.97E-01 +/- 1.39E-01	2.25E+00	1.73E-08 +/- 1.13E-07
	2	50.38	5.21E+00 +/- 7.24E-01	1.83E+00	5.33E-06 +/- 1.40E-05
	3	60.19	9.00E+01 +/- 1.51E+00	1.75E+00	2.30E-05 +/- 3.88E-05
	4	99.65	2.39E+00 +/- 5.26E-01	1.62E+00	2.52E-04 +/- 6.25E-05
	5	103.69	2.94E+00 +/- 3.22E-01	1.61E+00	2.79E-04 +/- 5.40E-05
	6	111.93	7.20E-01 +/- 2.99E-01	1.60E+00	3.31E-04 +/- 3.61E-05
M	7	126.04	1.14E+00 +/- 1.44E-01	1.58E+00	4.03E-04 +/- 2.40E-05
m	8	130.02	3.58E+00 +/- 3.05E-01	1.58E+00	4.19E-04 +/- 2.78E-05
	9	144.57	8.80E-01 +/- 2.17E-01	1.56E+00	4.65E-04 +/- 4.60E-05
	10	152.68	3.20E-01 +/- 1.76E-01	1.55E+00	4.81E-04 +/- 5.38E-05
	11	164.07	8.45E-01 +/- 2.16E-01	1.54E+00	4.95E-04 +/- 6.03E-05
	12	185.71	5.67E+00 +/- 2.94E-01	1.52E+00	5.01E-04 +/- 6.14E-05
	13	208.72	6.69E-01 +/- 1.42E-01	1.50E+00	4.87E-04 +/- 5.34E-05
	14	333.40	1.93E-01 +/- 9.88E-02	1.42E+00	3.53E-04 +/- 1.73E-05
	15	345.71	2.60E-01 +/- 1.02E-01	1.41E+00	3.41E-04 +/- 1.75E-05
	16	375.80	8.95E-01 +/- 1.19E-01	1.39E+00	3.16E-04 +/- 1.85E-05
	17	393.54	3.11E-01 +/- 8.25E-02	1.39E+00	3.03E-04 +/- 1.90E-05
	18	413.70	8.68E-01 +/- 9.38E-02	1.38E+00	2.89E-04 +/- 1.94E-05
	19	423.66	9.49E-02 +/- 3.81E-02	1.37E+00	2.83E-04 +/- 1.95E-05
	20	452.02	1.02E-01 +/- 4.86E-02	1.36E+00	2.67E-04 +/- 1.94E-05
	21	1112.12	1.73E-02 +/- 1.22E-02	1.21E+00	1.30E-04 +/- 5.64E-06
	22	2236.00	1.00E+02 +/- 1.50E+00	1.15E+00	5.36E-05 +/- 3.03E-05

Segment: 14 Detector: DET01 (# 1) Position: 14

Elapsed Live Time: 114.18 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.475 +/- 0.0154
SE-75	264.65	0.000 +/- 0.0000	0.557 +/- 0.0121
SE-75	279.53	0.000 +/- 0.0000	0.553 +/- 0.0130
SE-75	400.65	0.000 +/- 0.0000	0.604 +/- 0.0159

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	60.19	3.41E+01 +/- 8.00E-01	1.40E+00	9.60E-05 +/- 1.50E-04
	2	99.54	5.88E-01 +/- 3.44E-01	1.34E+00	3.20E-04 +/- 7.48E-05
	3	103.73	7.01E-01 +/- 2.11E-01	1.33E+00	3.38E-04 +/- 6.14E-05
	4	111.11	3.89E-01 +/- 2.05E-01	1.33E+00	3.67E-04 +/- 4.07E-05
	5	129.29	1.22E+00 +/- 1.88E-01	1.31E+00	4.20E-04 +/- 2.62E-05
	6	144.58	6.75E-01 +/- 1.77E-01	1.30E+00	4.46E-04 +/- 4.14E-05
	7	164.23	6.60E-01 +/- 1.83E-01	1.29E+00	4.62E-04 +/- 5.26E-05
	8	185.71	5.00E+00 +/- 2.59E-01	1.28E+00	4.64E-04 +/- 5.33E-05
M	9	206.16	4.70E-01 +/- 9.95E-02	1.27E+00	4.56E-04 +/- 4.79E-05
m	10	208.67	3.95E-01 +/- 8.97E-02	1.27E+00	4.54E-04 +/- 4.70E-05
	11	375.66	1.95E-01 +/- 1.00E-01	1.21E+00	3.22E-04 +/- 1.72E-05
	12	393.72	6.85E-02 +/- 4.68E-02	1.21E+00	3.10E-04 +/- 1.77E-05
	13	413.70	2.99E-01 +/- 6.30E-02	1.20E+00	2.98E-04 +/- 1.80E-05
	14	662.42	4.25E-02 +/- 3.59E-02	1.16E+00	1.96E-04 +/- 1.14E-05
	15	778.90	8.63E-03 +/- 8.63E-03	1.14E+00	1.70E-04 +/- 8.37E-06
	16	1112.12	8.63E-03 +/- 8.63E-03	1.12E+00	1.26E-04 +/- 5.44E-06
	17	2236.00	1.00E+02 +/- 1.49E+00	1.08E+00	7.64E-05 +/- 4.15E-05

Segment: 15 Detector: DET01 (# 1) Position: 15

Elapsed Live Time: 114.33 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.645 +/- 0.0191
SE-75	264.65	0.000 +/- 0.0000	0.691 +/- 0.0149
SE-75	279.53	0.000 +/- 0.0000	0.693 +/- 0.0160
SE-75	400.65	0.000 +/- 0.0000	0.719 +/- 0.0185

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.14	6.88E+00 +/- 3.64E-01	1.23E+00	1.23E-05 +/- 2.02E-05
2	144.61	2.72E-01 +/- 1.26E-01	1.17E+00	4.73E-04 +/- 4.60E-05
3	185.71	1.29E+00 +/- 1.48E-01	1.16E+00	5.02E-04 +/- 6.08E-05
4	400.66	7.28E-02 +/- 4.28E-02	1.13E+00	2.70E-04 +/- 1.63E-05
5	511.63	1.29E-01 +/- 4.33E-02	1.12E+00	2.15E-04 +/- 1.54E-05
6	778.90	1.87E-02 +/- 1.85E-02	1.09E+00	1.56E-04 +/- 8.00E-06
7	1462.68	6.70E-02 +/- 2.81E-02	1.06E+00	8.59E-05 +/- 7.40E-06
8	2236.00	1.00E+02 +/- 1.49E+00	1.05E+00	3.18E-05 +/- 1.80E-05

Segment: 16 Detector: DET01 (# 1) Position: 16

Elapsed Live Time: 114.38 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.818 +/- 0.0239
SE-75	264.65	0.000 +/- 0.0000	0.837 +/- 0.0179
SE-75	279.53	0.000 +/- 0.0000	0.825 +/- 0.0188
SE-75	400.65	0.000 +/- 0.0000	0.864 +/- 0.0217

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.13	1.93E+00 +/- 2.15E-01	1.10E+00	5.61E-05 +/- 2.41E-05
2	778.90	2.76E-02 +/- 2.58E-02	1.04E+00	9.86E-05 +/- 6.05E-06
3	1085.91	2.09E-02 +/- 1.79E-02	1.03E+00	7.51E-05 +/- 3.53E-06
4	2236.00	1.00E+02 +/- 1.50E+00	1.02E+00	6.28E-05 +/- 1.87E-05

Summed Spectrum

Peak Locate Report

Sample ID: LL85101617
Peak Locate Performed on: 4-08-08 1:33:24 PM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192
Peak Search Sensitivity: 5.00

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
1	64.56	0.2238	31.94	9.90
2	101.03	0.1580	50.18	13.16
3	121.04	0.0406	60.19	263.27
4	200.66	0.0808	100.00	51.37
5	224.14	0.1413	111.74	21.51
6	231.94	0.1716	115.63	10.74
7	252.73	0.1412	126.03	23.17
8	260.74	0.0847	130.04	59.28
9	290.02	0.1975	144.68	12.20
10	307.60	0.1082	153.47	34.32
11	373.61	0.1128	186.47	31.54
12	418.08	0.1165	208.71	31.40
13	479.18	0.2100	239.26	9.29
14	625.84	0.1786	312.58	12.60
15	667.62	0.1627	333.51	15.27
16	673.88	0.2415	336.38	7.79
17	692.24	0.1593	345.79	15.38
18	738.99	0.2377	369.16	6.49
19	752.22	0.1138	375.78	29.27
20	762.23	0.2145	380.98	9.87
21	768.00	0.2295	383.53	8.88
22	787.83	0.1649	393.58	14.03
23	829.62	0.1157	414.48	26.46
24	847.39	0.2499	423.36	5.81
25	905.17	0.2070	452.25	8.89
26	1024.00	0.1852	511.67	9.10
27	1168.55	0.2287	583.94	6.40
28	1327.15	0.2481	663.24	5.68
29	2552.00	0.2334	1275.67	5.97
30	2924.97	0.2347	1462.15	5.32
31	4473.25	0.0265	2236.29	412.23

Errors quoted at 1.000 sigma

Summed Spectrum

Peak Analysis Report

Sample ID: LL85101617
Peak Analysis Performed on: 4-08-08 1:33:24 PM
Peak Analysis From Channel: 40
Peak Analysis To Channel: 8192

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	1	61-	67	64.56	31.94	3.32E+02	38.19	4.88E+02
	2	94-	107	101.03	50.18	6.97E+03	287.00	2.58E+04
	3	114-	127	121.04	60.19	1.22E+05	429.09	2.22E+04
	4	194-	205	200.66	100.00	9.09E+03	224.26	1.64E+04
	5	217-	228	224.14	111.74	7.36E+02	122.59	5.51E+03
	6	228-	238	231.94	115.63	4.75E+02	117.21	5.22E+03
	7	245-	255	252.73	126.03	1.26E+03	104.74	4.07E+03
	8	255-	267	260.74	130.04	4.17E+03	137.70	5.26E+03
	9	283-	296	290.02	144.68	3.05E+02	102.45	3.65E+03
	10	303-	314	307.60	153.47	1.85E+03	93.81	2.73E+03
	11	368-	378	373.61	186.47	1.87E+03	75.71	1.63E+03
	12	414-	425	418.08	208.71	1.40E+03	74.79	1.61E+03
	13	473-	482	479.18	239.26	2.53E+02	44.23	7.57E+02
	14	621-	633	625.84	312.58	3.60E+02	43.20	5.68E+02
M	15	660-	678	667.69	333.51	5.74E+02	42.69	3.59E+02
m	16	660-	678	673.43	336.38	2.66E+02	26.21	3.79E+02
	17	688-	699	692.24	345.79	4.72E+02	39.87	4.39E+02
	18	731-	746	738.99	369.16	7.11E+01	44.53	6.25E+02
	19	746-	759	752.22	375.78	1.05E+03	58.63	8.11E+02
M	20	759-	775	762.63	380.98	2.46E+02	27.26	2.56E+02
m	21	759-	775	767.73	383.53	2.33E+02	25.52	1.91E+02
	22	780-	795	787.83	393.58	4.89E+02	37.20	2.98E+02
	23	825-	837	829.62	414.48	1.26E+03	43.50	2.32E+02
	24	839-	852	847.39	423.36	9.86E+01	26.06	2.10E+02
	25	897-	913	905.17	452.25	1.75E+02	27.90	1.93E+02
	26	1016-	1031	1024.00	511.67	4.47E+02	31.03	1.72E+02
	27	1160-	1172	1168.55	583.94	1.17E+02	18.81	8.95E+01
	28	1318-	1332	1327.15	663.24	7.46E+01	19.51	1.06E+02
	29	2548-	2561	2552.00	1275.67	5.63E+01	11.41	2.57E+01
	30	2919-	2934	2924.97	1462.15	5.22E+01	12.46	3.28E+01
	31	4466-	4478	4473.25	2236.29	1.85E+05	430.58	9.30E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Summed Spectrum

Nuclide Identification Report

Sample ID: LL85101617
Nuclide Library Used: C:\WAS\NLIB\LLNL.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (uCi/)	Activity Uncertainty
Pulser	0.994	2236.00*	100.00	8.375E+02	1.666E+02
U-235	0.960	185.71*	57.20	3.403E+00	1.559E-01
Np-237	0.735	300.10	6.63		
		311.90*	38.60	1.114E+00	1.341E-01
Pu-238	0.957	152.68*	0.00	2.207E+05	1.180E+04
Pu-239	0.958	413.70*	0.00	1.219E+05	4.743E+03
Pu-239A	0.961	129.29*	0.01	8.520E+04	3.381E+03
Am-241	0.953	662.42*	0.00	3.752E+04	9.822E+03

* = Energy line found in the spectrum.
Energy Tolerance : 1.500 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 4-08-08 1:33:24 PM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192

	Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
	1	31.94	2.8820E+00	11.49
	2	50.18	6.0426E+01	4.13
	3	60.19	1.0605E+03	0.43
	4	100.00	7.8794E+01	2.48
	5	111.74	6.3834E+00	16.66
	6	115.63	4.1230E+00	24.66
	7	126.03	1.0915E+01	8.33
	9	144.68	2.6494E+00	33.54
	12	208.71	1.2164E+01	5.34
	13	239.26	2.1960E+00	17.47
M	15	333.51	4.9774E+00	7.44
m	16	336.38	2.3105E+00	9.84
	17	345.79	4.0907E+00	8.46
	18	369.16	6.1701E-01	62.59
	19	375.78	9.1079E+00	5.59
M	20	380.98	2.1345E+00	11.08
m	21	383.53	2.0240E+00	10.94
	22	393.58	4.2394E+00	7.61
	24	423.36	8.5482E-01	26.44
	25	452.25	1.5197E+00	15.92
	26	511.67	3.8768E+00	6.95
	27	583.94	1.0186E+00	16.02
	29	1275.67	4.8798E-01	20.28
	30	1462.15	4.5244E-01	23.89

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Combined Segment NID

NID Results Combiner Mode: Sum Activities

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		8.94E+02	+/-	1.33E+02	1.47E-02	+/-	2.19E-03
SE-75	<	6.61E-02	+/-	4.71E-03	< 1.09E-06	+/-	7.75E-08
EU-152x		5.91E-02	+/-	1.91E-02	9.72E-07	+/-	3.15E-07
U-233	<	4.54E+03	+/-	3.94E+02	< 7.46E-02	+/-	6.48E-03
U-235		2.29E+00	+/-	1.62E-01	3.76E-05	+/-	2.67E-06
Np-237		7.54E-01	+/-	9.00E-02	1.24E-05	+/-	1.48E-06
Pu-238		3.06E+05	+/-	1.83E+04	5.03E+00	+/-	3.01E-01
U-238		5.73E+00	+/-	1.78E+00	9.42E-05	+/-	2.93E-05
Pu-239		1.19E+05	+/-	4.82E+03	1.96E+00	+/-	7.94E-02
Pu-239A		1.24E+05	+/-	4.03E+03	2.05E+00	+/-	6.62E-02
Am-241		3.48E+04	+/-	6.17E+03	5.73E-01	+/-	1.02E-01
Am-241D		4.70E+04	+/-	1.20E+04	7.74E-01	+/-	1.97E-01
Pu-241		1.34E+04	+/-	8.47E+03	2.20E-01	+/-	1.39E-01

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
U-235	1.06E+00	+/-	7.51E-02
Np-237	1.07E-03	+/-	1.28E-04
Pu-238	1.78E-02	+/-	1.07E-03
U-238	1.71E+01	+/-	5.31E+00
Pu-239	1.92E+00	+/-	7.77E-02
Pu-239A	2.00E+00	+/-	6.48E-02
Am-241	1.02E-02	+/-	1.80E-03
Pu-241	1.30E-04	+/-	8.19E-05

Summed Spectrum

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		8.38E+02	+/-	1.67E+02	1.38E-02	+/-	2.74E-03
SE-75	<	3.42E-01	+/-	2.75E-03	< 5.63E-06	+/-	4.52E-08
EU-152x	<	6.65E-01	+/-	1.06E-02	< 1.09E-05	+/-	1.74E-07
U-233	<	2.56E+04	+/-	5.07E+02	< 4.22E-01	+/-	8.33E-03
U-235		3.40E+00	+/-	1.56E-01	5.60E-05	+/-	2.56E-06
Np-237		1.11E+00	+/-	1.34E-01	1.83E-05	+/-	2.21E-06
Pu-238		2.21E+05	+/-	1.18E+04	3.63E+00	+/-	1.94E-01
U-238	<	1.76E+01	+/-	2.73E-01	< 2.90E-04	+/-	4.49E-06
Pu-239		1.22E+05	+/-	4.74E+03	2.00E+00	+/-	7.80E-02
Pu-239A		8.52E+04	+/-	3.38E+03	1.40E+00	+/-	5.56E-02
Am-241		3.75E+04	+/-	9.82E+03	6.17E-01	+/-	1.62E-01
Am-241D	<	7.90E+04	+/-	6.73E+02	< 1.30E+00	+/-	1.11E-02
Pu-241	<	2.63E+05	+/-	4.35E+03	< 4.32E+00	+/-	7.15E-02

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
U-235	1.58E+00	+/-	7.22E-02
Np-237	1.58E-03	+/-	1.90E-04
Pu-238	1.29E-02	+/-	6.89E-04
Pu-239	1.96E+00	+/-	7.64E-02
Pu-239A	1.37E+00	+/-	5.44E-02
Am-241	1.10E-02	+/-	2.87E-03

Final Non-Uniformity Results

Source Longitudinal Ratio:	0.788	+/-	2.3640
Matrix Longitudinal Ratio:	0.973	+/-	0.2531
Source Vertical Ratio:	0.515	+/-	0.2970
Matrix Vertical Ratio:	0.922	+/-	0.0249

NUDS could not find the transmission peak in one radial segment.

Radioassay Data Sheet — Thu May 1 10:49:07 2008
Procedure ID & Rev: WCP-55 03/07/2002 — Software Version: GWAS v2.3bGEN

Drum ID	: LL85234328	Gross Weight (kg)	: 69.6
Sequence Number	: 2666	Fill Height (%)	: 100.0
Assay Date	: 04/08/08 13:59:52	Density (g/cc)	: 0.22
		Net Weight (kg)	: 45.80
Batch Number	:	Waste Matrix Code	:
Site ID	:	TRUCON	:

	Errors at 1.00 Sigma		
TRU Alpha Activity Concentration:	6.02e-05	+/- 6.91e-06	Ci/g
Total Pu-239 Equiv Activity:	2.68e+00	+/- 2.98e-01	Ci
Total Pu-239 Fissile Gram Equiv:	1.19e+01	+/- 2.32e+00	g
Decay Heat:	9.07e-02	+/- 1.05e-02	W
Total Pu Mass:	1.28e+01	+/- 2.33e+00	g
TMU:	19.92%		
Waste Classification:	TRU		

Isotopics Data

Measured Isotope	MGA Report Weight %	MGA Report % Err (1.00 Sigma)
Pu-238	5.92e-01	1.55e+00
Pu-239	9.12e+01	2.44e-01
Pu-240	7.36e+00	2.72e+00
Pu-241	1.38e-01	2.97e+00
Pu-242	6.64e-01	1.00e+01
Am-241	2.36e+00	1.42e+00
Am-243	0.00e+00	0.00e+00
Np-237	0.00e+00	0.00e+00
U-235	1.61e+00	3.26e+01

Activity Errors

Isotope	Isotope Mass (g)	1.00 Sigma Error/Isotope Mass (g)	Alpha Activity/ Isotope (Ci)	1.00 Sigma Error/Isotope (Ci)	MDA (g)
Pu-238	7.54e-02	1.51e-02	1.29e+00	2.58e-01	1.85e-03
Pu-239	1.16e+01	2.32e+00	7.22e-01	1.44e-01	1.59e-01
Pu-240	9.39e-01	1.89e-01	2.13e-01	4.28e-02	0.00e+00
Pu-241	1.76e-02	3.55e-03	1.82e+00	3.67e-01	1.09e-03
Pu-242	8.46e-02	1.89e-02	3.32e-04	7.41e-05	0.00e+00
Am-241	1.55e-01	3.08e-02	5.31e-01	1.05e-01	5.19e-03
Am-243	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
Np-237	4.41e-03	9.44e-04	3.11e-06	6.66e-07	1.03e-03
U-235	2.06e-01	7.87e-02	4.45e-07	1.70e-07	1.18e-01
*U-238	<LLD	0.00e+00	0.00e+00	0.00e+00	1.66e+01
*U-233	<LLD	0.00e+00	0.00e+00	0.00e+00	1.08e+00
CS-137	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
U-234	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
SR-90	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00

* = Activity/Mass below detectable limit.

Operator Signature — Date

Robert J Haslett Jr — 5-1-08

Reviewer Signature — Date

AUTOMATED INDEPENDENT TECHNICAL REVIEW BASED ON WCP-55 03/07/2002

Software Version: GWAS v2.3bGEN
Counter Number: SGS
Data Review for Container: LL85234328
Item Description Code: \Count Type: DEBRIS
Sequence Number: 2666
Assayed on: 04/08/08 13:59:52
Report Generated: 05/01/08 10:48:51
AITR Version 1.4

Section 1 MGA Analysis Review Using MGA Isotopics

REVIEW Pu-240 Wt Pct -2 Sigma error <6.96> greater than <5.87> Review MGA Results OK
Pu-240 Wt Pct error <2.72> is within limits
Pu-238 Wt Pct error <1.55> is within limits
REVIEW QFIT <1.54> > <1.20> Review MGA Results OK
REVIEW MGAERR13: Efficiency curvature boundary reached OK

Section 2 - CONTAINER DENSITY REVIEW

Container density <0.220> g/cc is within UPPER and LOWER limits

Section 3 - SELF-ABSORPTION REVIEW

Pu-239/Pu-239a ratio <1.90e+00> is within limits

Section 4 - PULSER REVIEW

DEAD TIME percentage <0.63> is acceptable in Segment 1
Pulser value <0.99> is within range in Segment 1
DEAD TIME percentage <0.68> is acceptable in Segment 2
Pulser value <0.99> is within range in Segment 2
DEAD TIME percentage <0.76> is acceptable in Segment 3
Pulser value <0.98> is within range in Segment 3
DEAD TIME percentage <0.83> is acceptable in Segment 4
Pulser value <1.00> is within range in Segment 4
DEAD TIME percentage <1.06> is acceptable in Segment 5
Pulser value <0.99> is within range in Segment 5
DEAD TIME percentage <1.94> is acceptable in Segment 6
Pulser value <1.00> is within range in Segment 6
DEAD TIME percentage <5.19> is acceptable in Segment 7
Pulser value <1.00> is within range in Segment 7
DEAD TIME percentage <7.75> is acceptable in Segment 8
Pulser value <1.00> is within range in Segment 8
DEAD TIME percentage <6.45> is acceptable in Segment 9
Pulser value <1.00> is within range in Segment 9
DEAD TIME percentage <3.54> is acceptable in Segment 10
Pulser value <0.99> is within range in Segment 10
DEAD TIME percentage <1.66> is acceptable in Segment 11
Pulser value <1.00> is within range in Segment 11
DEAD TIME percentage <1.14> is acceptable in Segment 12
Pulser value <0.98> is within range in Segment 12
DEAD TIME percentage <0.95> is acceptable in Segment 13
Pulser value <0.99> is within range in Segment 13
DEAD TIME percentage <0.88> is acceptable in Segment 14
Pulser value <0.99> is within range in Segment 14
DEAD TIME percentage <0.76> is acceptable in Segment 15
Pulser value <0.99> is within range in Segment 15
DEAD TIME percentage <0.67> is acceptable in Segment 16
Pulser value <1.00> is within range in Segment 16

Section 5 - TRANSMISSION REVIEW

Transmission results are acceptable in Segment 1
Transmission results are acceptable in Segment 2
Transmission results are acceptable in Segment 3
Transmission results are acceptable in Segment 4
Transmission results are acceptable in Segment 5
Transmission results are acceptable in Segment 6
Transmission results are acceptable in Segment 7

Transmission results are acceptable in Segment 8
Transmission results are acceptable in Segment 9
Transmission results are acceptable in Segment 10
Transmission results are acceptable in Segment 11
Transmission results are acceptable in Segment 12
Transmission results are acceptable in Segment 13
Transmission results are acceptable in Segment 14
Transmission results are acceptable in Segment 15
Transmission results are acceptable in Segment 16

Section 6 - REDUCED CHI SQUARED FIT REVIEW

All energy peaks within <3.00e+00> RCHISQ limit

Section 7 - FGE MASS REVIEW

FGE Mass <14.23> is within limits

Section 8 - PERCENT FULL REVIEW

Percent Full <100.0> is above lower limit <30.0>

Section 9 - IDC COUNT TYPE REVIEW

REVIEW IDC is not available

Section 10 - AM-241 & NP-237 INTERFERENCE REVIEW

REVIEW Am-241 ratio <74.95> is below lower limit <200.00> Ok
Np-237 ratio <2635.60> is above lower limit <125.00>

Section 11 - PU-239 CALIBRATION RANGE REVIEW

Pu-239 <11.63> is within limits

Section 12 - CS-137 INTERFERENCE REVIEW

Am-241D > Am-241A: Calculation not performed Ok. Checked.

Independent Reviewer: Robert J Hazlett Date: 5-1-08

INDEPENDENT TECHNICAL REVIEW COMMENT SHEET

Counter Number: SGS
Data Review for Container: LL85234328
Item Description Code:
Sequence Number: 2666
Assayed on: 04/08/08 13:59:52
AITR Version 1.4

Comments	Disposition
SECTION 1 - MGA	
Pu-240 Wt Pct -2 Sigma error is greater than upper limit.	OK
QFIT is greater than upper limit.	OK . NQFIT OK.
MGAERR13	OK
SECTION 9 - IDC COUNT TYPE	
IDC is not available.	N/A
SECTION 10 - AM-241 & NP-237 INTERFERENCE TEST	
Possible Am-241 interference with 129 KeV peak.	OK . Checked .

Technical Reviewer: Robert J Haslett Date: 5-1-08

****
***** M G A R E P O R T *****
****

Report generated on: 5-01-08 10:47:30 AM

MGA version: MGA V9.5 CI

Spectrum ID: 11202666.CNF Sens : 30.0% LT: 54.4 Mins DT: 2.63
Measurement date: 4-08-08 Declared date: 4-08-08

Sample ID: LL85234328 Detector: Total counts: 2.837E+06

Pu g/cm2 = 0.0500 Cd g/cm2 = 1.8000 FWHM at 122 keV = 601 eV
QFIT = 1.54 FWHM at 208 keV = 767 eV
NQFIT = 1.04

Isotope	Relative to Pu-239	%* Err	% Err	Relative to Pu-241	%* Err	Isotope analysis at Meas. date % weight	%Err	Decl. date % weight	%Err
Pu-238	0.006483	1.7	0.9	4.2748	2.7	0.59151	1.55	0.59151	1.55
Pu-239	1.000000	0.0	1.5	659.4182	3.0	91.24463	0.24	91.24463	0.24
Pu-240	0.080683	3.0	2.5	53.2037	3.7	7.36187	2.72	7.36187	2.72
Pu-241	0.001516	3.0	2.7	1.0000	0.0	0.13837	2.97	0.13837	2.97
Pu-242	(New alg.)			4.7960	(10)	0.66362	(10)	0.66362	(10)
Am-241	0.025872	1.5	0.4	17.0602	2.7	2.36065	1.42	2.36065	1.42
U-235	0.017698	32.6	32.6			1.61488	32.61	1.61488	32.61

Pu-240 effective (meas. date) = 9.967 +/- 2.69%
Am-241 separated about 60.034 +/- 0.215 years ago
Am/Pu-241 weight ratio =17.06024 +/- 2.70%

Messages :

Lead x-rays detected.
Efficiency curvature boundary reached.
Pu-241/Pu-239 efficiency changed in MGACAL by 3%.
17 MGA parameter(s) defaulted, starting from parameter 8.

Notes : * = Error in ratio
1.000 sigma errors

Gamma Waste Assay

Sample Information

File Name: C:\WAS\DATA\2700\11102666.S11
Sample ID: LL85234328 Count Sequence Number: 2666
Assay Start: 4-08-08 1:59:54 PM
Description 1:
Description 2:
Location:
Comment:
Waste Type:
Weight: Gross: 69600.0 g Net: 45800.0 g
Density: 0.220 g /ml

Container Type: 55 Gal Galv 23.8
Container: Volume: 208000. ml Full: 100.0 %

System Configuration

Counter ID Number: SGS
Arrangement Description: SGS
Segments: Number: 16 Offset: 0
Scanning Platform: Start: 934 mm Delta: -51 mm
Count Type: 55 Gal Galv 23.8
Collimator/Geometry Setting: 0
Transmission Mode: Two pass
Transmission Source: 0

Errors quoted at 1.000 sigma
Reference Source Date: Reference Source Rate: 1.00E+02 cps
Geometric Correction Factor(SWCONTGCF): 0.760
Date of efficiency calibration approval: 8-27-2003 2:05:34 PM
Mu Factors response file: Lucite response
Transmission Calib. Time: 12-10-2007 3:51:07 PM 28849

Reviewed by: Robert J Hartlett Jr Date: 5-1-08

Segment Results

Segment: 1 Detector: DET01 (# 1) Position: 1

Elapsed Live Time: 114.27 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.089 +/- 0.0063
SE-75	264.65	0.000 +/- 0.0000	0.159 +/- 0.0039
SE-75	279.53	0.000 +/- 0.0000	0.170 +/- 0.0048
SE-75	400.65	0.000 +/- 0.0000	0.204 +/- 0.0069

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.05	9.39E-02 +/- 6.57E-02	3.70E+00	4.70E-10 +/- 3.33E-09
2	49.21	5.07E+00 +/- 4.07E-01	2.79E+00	6.82E-07 +/- 2.07E-06
3	60.27	5.60E-01 +/- 2.50E-01	2.59E+00	6.44E-06 +/- 1.18E-05
4	129.29	2.27E-01 +/- 1.56E-01	2.20E+00	3.01E-04 +/- 2.13E-05
5	300.10	9.14E-02 +/- 5.63E-02	1.80E+00	2.87E-04 +/- 1.52E-05
6	413.70	5.82E-02 +/- 4.20E-02	1.71E+00	2.03E-04 +/- 1.44E-05
7	964.13	6.35E-02 +/- 3.74E-02	1.43E+00	9.44E-05 +/- 5.09E-06
8	2236.00	1.00E+02 +/- 1.49E+00	1.28E+00	3.40E-05 +/- 2.15E-05

Segment: 2 Detector: DET01 (# 1) Position: 2

Elapsed Live Time: 114.22 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.110 +/- 0.0060
SE-75	264.65	0.000 +/- 0.0000	0.188 +/- 0.0045
SE-75	279.53	0.000 +/- 0.0000	0.199 +/- 0.0055
SE-75	400.65	0.000 +/- 0.0000	0.246 +/- 0.0079

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	48.98	5.12E+00 +/- 4.60E-01	2.60E+00	7.87E-05 +/- 2.11E-04
2	60.24	3.67E+00 +/- 4.35E-01	2.41E+00	1.33E-04 +/- 2.14E-04
3	185.71	2.61E-01 +/- 1.80E-01	1.93E+00	4.30E-04 +/- 5.06E-05
4	311.90	7.94E-02 +/- 5.62E-02	1.70E+00	3.58E-04 +/- 1.69E-05
5	1112.12	2.61E-02 +/- 1.51E-02	1.34E+00	1.18E-04 +/- 5.17E-06
6	2236.00	1.00E+02 +/- 1.50E+00	1.24E+00	9.73E-05 +/- 5.41E-05

Segment: 3 Detector: DET01 (# 1) Position: 3

Elapsed Live Time: 114.13 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.102 +/- 0.0060
SE-75	264.65	0.000 +/- 0.0000	0.169 +/- 0.0041
SE-75	279.53	0.000 +/- 0.0000	0.176 +/- 0.0050
SE-75	400.65	0.000 +/- 0.0000	0.220 +/- 0.0072

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	49.05	4.27E+00 +/- 5.20E-01	2.67E+00	3.56E-05 +/- 1.79E-05
2	56.86	6.28E+00 +/- 5.75E-01	2.52E+00	6.56E-05 +/- 2.53E-05
3	60.17	2.50E+00 +/- 4.23E-01	2.48E+00	8.07E-05 +/- 2.79E-05
4	148.57	3.81E-01 +/- 2.36E-01	2.07E+00	4.63E-04 +/- 2.25E-05
5	964.13	4.87E-02 +/- 2.60E-02	1.41E+00	1.39E-04 +/- 5.75E-06
6	1001.03	2.59E-02 +/- 1.49E-02	1.40E+00	1.35E-04 +/- 5.37E-06
7	2236.00	1.00E+02 +/- 1.49E+00	1.27E+00	1.32E-04 +/- 3.24E-05

Segment: 4 Detector: DET01 (# 1) Position: 4

Elapsed Live Time: 114.05 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.165 +/- 0.0085
SE-75	264.65	0.000 +/- 0.0000	0.236 +/- 0.0055
SE-75	279.53	0.000 +/- 0.0000	0.249 +/- 0.0066
SE-75	400.65	0.000 +/- 0.0000	0.298 +/- 0.0091

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	49.23	4.21E+00 +/- 5.99E-01	2.25E+00	9.31E-06 +/- 2.43E-05
2	60.18	1.89E+01 +/- 6.99E-01	2.11E+00	3.62E-05 +/- 5.76E-05
3	129.29	5.23E-01 +/- 2.28E-01	1.85E+00	4.12E-04 +/- 2.61E-05
4	400.66	1.09E-01 +/- 6.00E-02	1.53E+00	3.02E-04 +/- 1.76E-05
5	413.70	1.56E-01 +/- 7.62E-02	1.52E+00	2.94E-04 +/- 1.78E-05
6	512.00	2.90E-01 +/- 7.35E-02	1.47E+00	2.40E-04 +/- 1.65E-05
7	662.42	3.59E-02 +/- 2.16E-02	1.40E+00	1.90E-04 +/- 1.13E-05
8	2236.00	1.00E+02 +/- 1.50E+00	1.21E+00	7.00E-05 +/- 3.84E-05

Segment: 5 Detector: DET01 (# 1) Position: 5

Elapsed Live Time: 113.78 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.069 +/- 0.0059
SE-75	264.65	0.000 +/- 0.0000	0.112 +/- 0.0029
SE-75	279.53	0.000 +/- 0.0000	0.119 +/- 0.0038
SE-75	400.65	0.000 +/- 0.0000	0.150 +/- 0.0056

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	49.01	5.60E+00 +/- 7.22E-01	3.04E+00	1.38E-05 +/- 3.92E-05
2	60.15	4.38E+01 +/- 1.02E+00	2.79E+00	4.79E-05 +/- 8.22E-05
3	67.68	5.23E-01 +/- 3.05E-01	2.69E+00	8.40E-05 +/- 1.03E-04
4	99.94	2.84E+00 +/- 5.23E-01	2.46E+00	2.81E-04 +/- 6.94E-05
5	129.29	9.88E-01 +/- 2.80E-01	2.36E+00	4.07E-04 +/- 2.65E-05
6	264.66	2.75E-01 +/- 1.41E-01	2.05E+00	4.06E-04 +/- 2.73E-05
7	375.76	1.69E-01 +/- 8.16E-02	1.91E+00	3.11E-04 +/- 1.79E-05
8	413.70	2.01E-01 +/- 7.44E-02	1.87E+00	2.86E-04 +/- 1.90E-05
9	511.87	4.18E-01 +/- 9.36E-02	1.78E+00	2.37E-04 +/- 1.79E-05
10	1408.01	8.66E-03 +/- 8.66E-03	1.42E+00	1.00E-04 +/- 6.78E-06
11	2236.00	1.00E+02 +/- 1.50E+00	1.34E+00	5.76E-05 +/- 3.29E-05

Segment: 6 Detector: DET01 (# 1) Position: 6

Elapsed Live Time: 112.77 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.063 +/- 0.0071
SE-75	264.65	0.000 +/- 0.0000	0.106 +/- 0.0028
SE-75	279.53	0.000 +/- 0.0000	0.109 +/- 0.0037
SE-75	400.65	0.000 +/- 0.0000	0.147 +/- 0.0057

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.01	9.15E-01 +/- 1.84E-01	4.10E+00	4.65E-07 +/- 2.93E-06
	2	49.31	6.57E+00 +/- 1.01E+00	3.11E+00	1.98E-05 +/- 5.27E-05
	3	60.17	1.68E+02 +/- 2.52E+00	2.87E+00	6.08E-05 +/- 9.94E-05
	4	99.75	3.85E+00 +/- 1.10E+00	2.52E+00	3.08E-04 +/- 7.38E-05
	5	103.74	9.20E+00 +/- 6.69E-01	2.51E+00	3.30E-04 +/- 6.18E-05
	6	111.72	1.09E+00 +/- 5.62E-01	2.47E+00	3.69E-04 +/- 3.99E-05
M	7	125.97	4.61E+00 +/- 3.53E-01	2.42E+00	4.22E-04 +/- 2.47E-05
m	8	129.94	5.40E+00 +/- 3.87E-01	2.41E+00	4.33E-04 +/- 2.80E-05
	9	152.68	2.09E+00 +/- 3.51E-01	2.34E+00	4.74E-04 +/- 5.16E-05
	10	204.26	8.20E-01 +/- 2.93E-01	2.21E+00	4.75E-04 +/- 5.26E-05

	11	208.72	1.66E+00	+/- 3.76E-01	2.20E+00	4.72E-04	+/-	5.09E-05
M	12	333.40	9.01E-01	+/- 1.58E-01	1.99E+00	3.65E-04	+/-	1.73E-05
m	13	336.20	8.49E-01	+/- 1.53E-01	1.98E+00	3.63E-04	+/-	1.73E-05
	14	345.65	7.33E-01	+/- 1.46E-01	1.97E+00	3.55E-04	+/-	1.74E-05
	15	369.35	3.67E-01	+/- 1.85E-01	1.94E+00	3.38E-04	+/-	1.82E-05
	16	375.86	2.56E+00	+/- 1.91E-01	1.93E+00	3.33E-04	+/-	1.84E-05
M	17	380.81	2.54E-01	+/- 9.99E-02	1.92E+00	3.30E-04	+/-	1.86E-05
m	18	384.07	3.04E-01	+/- 1.05E-01	1.92E+00	3.28E-04	+/-	1.87E-05
	19	393.58	1.00E+00	+/- 1.44E-01	1.91E+00	3.22E-04	+/-	1.90E-05
	20	413.70	2.41E+00	+/- 1.67E-01	1.88E+00	3.09E-04	+/-	1.95E-05
	21	423.10	1.84E-01	+/- 8.09E-02	1.87E+00	3.04E-04	+/-	1.96E-05
	22	443.98	1.24E-01	+/- 9.76E-02	1.85E+00	2.92E-04	+/-	1.97E-05
	23	452.61	2.31E-01	+/- 9.02E-02	1.84E+00	2.88E-04	+/-	1.97E-05
	24	511.82	4.54E-01	+/- 1.02E-01	1.79E+00	2.60E-04	+/-	1.85E-05
	25	619.70	1.29E-01	+/- 5.31E-02	1.70E+00	2.22E-04	+/-	1.43E-05
	26	662.42	3.90E-01	+/- 7.66E-02	1.67E+00	2.10E-04	+/-	1.26E-05
	27	722.01	2.09E-01	+/- 6.17E-02	1.64E+00	1.95E-04	+/-	1.05E-05
	28	1001.03	7.09E-02	+/- 2.51E-02	1.52E+00	1.45E-04	+/-	6.25E-06
	29	1276.01	8.06E-02	+/- 2.93E-02	1.45E+00	1.12E-04	+/-	5.23E-06
	30	2236.00	1.00E+02	+/- 1.51E+00	1.34E+00	4.34E-05	+/-	2.42E-05

Segment: 7 Detector: DET01 (# 1) Position: 7

Elapsed Live Time: 109.03 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.078 +/- 0.0093
SE-75	264.65	0.000 +/- 0.0000	0.161 +/- 0.0041
SE-75	279.53	0.000 +/- 0.0000	0.168 +/- 0.0053
SE-75	400.65	0.000 +/- 0.0000	0.203 +/- 0.0074

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)		Correction Factor	Original Efficiency		
	1	32.07	3.51E+00	+/- 4.13E-01	3.87E+00	5.02E-09	+/-	2.87E-08
	2	50.09	1.59E+01	+/- 1.36E+00	2.89E+00	2.90E-06	+/-	6.82E-06
	3	60.18	7.71E+02	+/- 9.73E+00	2.69E+00	1.60E-05	+/-	2.39E-05
	4	99.68	3.21E+01	+/- 1.85E+00	2.38E+00	2.46E-04	+/-	5.48E-05
	5	103.71	1.28E+01	+/- 1.92E+00	2.37E+00	2.76E-04	+/-	4.84E-05
	6	115.13	6.48E+00	+/- 8.73E-01	2.32E+00	3.58E-04	+/-	2.97E-05
M	7	123.70	4.88E+00	+/- 3.74E-01	2.30E+00	4.11E-04	+/-	2.39E-05
m	8	126.00	2.43E+01	+/- 7.75E-01	2.29E+00	4.24E-04	+/-	2.46E-05
m	9	130.00	2.50E+01	+/- 7.80E-01	2.28E+00	4.45E-04	+/-	2.77E-05
	10	144.55	3.03E+00	+/- 7.76E-01	2.23E+00	5.04E-04	+/-	4.45E-05

	11	152.68	6.66E+00	+/- 5.79E-01	2.19E+00	5.26E-04	+/-	5.21E-05
	12	170.39	1.33E+00	+/- 5.37E-01	2.12E+00	5.53E-04	+/-	6.06E-05
	13	208.69	1.17E+01	+/- 6.80E-01	2.00E+00	5.47E-04	+/-	5.32E-05
	14	256.35	9.61E-01	+/- 3.28E-01	1.87E+00	4.90E-04	+/-	3.17E-05
M	15	298.33	4.78E-01	+/- 1.92E-01	1.81E+00	4.34E-04	+/-	2.01E-05
m	16	301.10	6.69E-01	+/- 2.17E-01	1.81E+00	4.30E-04	+/-	1.97E-05
	17	311.90	1.26E+00	+/- 3.98E-01	1.80E+00	4.17E-04	+/-	1.86E-05
	18	323.48	2.13E+00	+/- 3.91E-01	1.79E+00	4.03E-04	+/-	1.79E-05
M	19	333.36	6.00E+00	+/- 3.70E-01	1.78E+00	3.91E-04	+/-	1.76E-05
m	20	336.22	5.05E+00	+/- 3.34E-01	1.78E+00	3.88E-04	+/-	1.76E-05
	21	345.75	4.67E+00	+/- 3.39E-01	1.77E+00	3.78E-04	+/-	1.76E-05
	22	369.19	2.00E+00	+/- 3.71E-01	1.75E+00	3.55E-04	+/-	1.81E-05
	23	375.80	8.94E+00	+/- 5.25E-01	1.74E+00	3.48E-04	+/-	1.82E-05
M	24	381.05	1.82E+00	+/- 2.35E-01	1.74E+00	3.44E-04	+/-	1.83E-05
m	25	383.57	1.92E+00	+/- 2.22E-01	1.74E+00	3.41E-04	+/-	1.84E-05
	26	393.63	4.19E+00	+/- 3.10E-01	1.73E+00	3.33E-04	+/-	1.86E-05
	27	413.70	1.12E+01	+/- 3.75E-01	1.71E+00	3.17E-04	+/-	1.88E-05
	28	423.34	3.05E-01	+/- 1.52E-01	1.71E+00	3.10E-04	+/-	1.88E-05
	29	443.98	4.48E-01	+/- 1.60E-01	1.69E+00	2.95E-04	+/-	1.87E-05
	30	452.22	1.43E+00	+/- 1.84E-01	1.68E+00	2.90E-04	+/-	1.86E-05
	31	511.80	6.57E-01	+/- 1.31E-01	1.64E+00	2.57E-04	+/-	1.71E-05
	32	619.81	4.38E-01	+/- 9.46E-02	1.57E+00	2.15E-04	+/-	1.32E-05
	33	653.60	2.20E-01	+/- 7.96E-02	1.55E+00	2.06E-04	+/-	1.20E-05
	34	662.42	2.08E+00	+/- 1.54E-01	1.55E+00	2.03E-04	+/-	1.17E-05
	35	689.31	1.57E-01	+/- 8.50E-02	1.53E+00	1.96E-04	+/-	1.09E-05
	36	722.01	1.12E+00	+/- 1.22E-01	1.52E+00	1.89E-04	+/-	9.99E-06
	37	1112.12	5.76E-02	+/- 3.09E-02	1.40E+00	1.32E-04	+/-	5.60E-06
	38	1275.71	8.26E-02	+/- 3.80E-02	1.37E+00	1.17E-04	+/-	5.42E-06
	39	2236.00	1.00E+02	+/- 1.53E+00	1.28E+00	5.07E-05	+/-	2.69E-05

Segment: 8 Detector: DET01 (# 1) Position: 8

Elapsed Live Time: 106.09 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.054 +/- 0.0067
SE-75	264.65	0.000 +/- 0.0000	0.131 +/- 0.0036
SE-75	279.53	0.000 +/- 0.0000	0.129 +/- 0.0048
SE-75	400.65	0.000 +/- 0.0000	0.169 +/- 0.0070

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)		Correction Factor	Original Efficiency	
	1	32.03	5.86E+00 +/-	4.93E-01	4.10E+00	7.63E-06 +/-	7.42E-06
	2	50.16	3.01E+01 +/-	1.85E+00	3.23E+00	6.00E-05 +/-	2.94E-05
	3	60.17	1.28E+03 +/-	1.60E+01	3.00E+00	1.10E-04 +/-	3.84E-05
	4	99.66	5.22E+01 +/-	2.34E+00	2.63E+00	3.26E-04 +/-	3.29E-05
	5	103.69	2.14E+01 +/-	2.37E+00	2.61E+00	3.43E-04 +/-	3.09E-05
	6	111.65	1.66E+00 +/-	1.10E+00	2.58E+00	3.75E-04 +/-	2.73E-05
	7	115.49	1.03E+01 +/-	1.23E+00	2.56E+00	3.88E-04 +/-	2.58E-05
M	8	123.71	8.00E+00 +/-	4.71E-01	2.53E+00	4.13E-04 +/-	2.35E-05
m	9	125.98	3.76E+01 +/-	9.97E-01	2.52E+00	4.19E-04 +/-	2.31E-05
m	10	129.98	3.94E+01 +/-	1.02E+00	2.51E+00	4.29E-04 +/-	2.26E-05
	11	144.57	4.00E+00 +/-	9.53E-01	2.44E+00	4.57E-04 +/-	2.25E-05
	12	152.68	7.68E+00 +/-	7.02E-01	2.39E+00	4.67E-04 +/-	2.32E-05
	13	170.12	3.90E+00 +/-	6.05E-01	2.31E+00	4.79E-04 +/-	2.50E-05
	14	190.11	6.97E-01 +/-	4.13E-01	2.22E+00	4.81E-04 +/-	2.61E-05
	15	196.44	1.44E+00 +/-	5.73E-01	2.19E+00	4.79E-04 +/-	2.62E-05
	16	204.22	6.27E+00 +/-	5.95E-01	2.16E+00	4.76E-04 +/-	2.61E-05
	17	208.68	1.71E+01 +/-	9.44E-01	2.15E+00	4.74E-04 +/-	2.60E-05
	18	221.89	9.60E-01 +/-	4.56E-01	2.10E+00	4.66E-04 +/-	2.54E-05
M	19	264.45	6.80E-01 +/-	2.39E-01	1.96E+00	4.32E-04 +/-	2.21E-05
m	20	268.17	9.87E-01 +/-	2.98E-01	1.96E+00	4.28E-04 +/-	2.17E-05
	21	279.54	6.30E-01 +/-	3.64E-01	1.97E+00	4.18E-04 +/-	2.07E-05
M	22	297.93	8.56E-01 +/-	2.65E-01	1.95E+00	4.01E-04 +/-	1.90E-05
m	23	300.39	5.55E-01 +/-	2.09E-01	1.94E+00	3.99E-04 +/-	1.88E-05
	24	311.90	2.39E+00 +/-	6.45E-01	1.93E+00	3.88E-04 +/-	1.78E-05
	25	323.37	2.65E+00 +/-	4.87E-01	1.91E+00	3.78E-04 +/-	1.69E-05
M	26	333.36	9.58E+00 +/-	4.80E-01	1.90E+00	3.69E-04 +/-	1.62E-05
m	27	336.17	7.62E+00 +/-	4.11E-01	1.90E+00	3.67E-04 +/-	1.60E-05
	28	345.68	7.20E+00 +/-	3.75E-01	1.89E+00	3.59E-04 +/-	1.54E-05
	29	369.18	3.77E+00 +/-	4.76E-01	1.86E+00	3.39E-04 +/-	1.41E-05
	30	375.79	1.39E+01 +/-	6.77E-01	1.85E+00	3.34E-04 +/-	1.38E-05
M	31	380.87	2.48E+00 +/-	2.87E-01	1.85E+00	3.30E-04 +/-	1.36E-05
m	32	383.56	2.75E+00 +/-	2.88E-01	1.84E+00	3.28E-04 +/-	1.35E-05
	33	393.66	6.58E+00 +/-	3.99E-01	1.83E+00	3.21E-04 +/-	1.31E-05
	34	413.70	1.79E+01 +/-	5.37E-01	1.81E+00	3.06E-04 +/-	1.25E-05
M	35	423.32	1.15E+00 +/-	1.99E-01	1.80E+00	3.00E-04 +/-	1.22E-05
m	36	427.24	3.72E-01 +/-	9.74E-02	1.80E+00	2.97E-04 +/-	1.21E-05
	37	452.20	2.41E+00 +/-	2.36E-01	1.77E+00	2.82E-04 +/-	1.16E-05
	38	511.66	5.53E-01 +/-	1.69E-01	1.72E+00	2.50E-04 +/-	1.09E-05
	39	584.02	2.15E-01 +/-	1.04E-01	1.67E+00	2.19E-04 +/-	1.02E-05
	40	619.74	5.29E-01 +/-	1.25E-01	1.65E+00	2.06E-04 +/-	9.86E-06
	41	653.48	3.00E-01 +/-	1.20E-01	1.63E+00	1.96E-04 +/-	9.51E-06
	42	662.42	3.70E+00 +/-	2.11E-01	1.62E+00	1.93E-04 +/-	9.41E-06

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	689.71	2.92E-01 +/- 1.16E-01	1.60E+00	1.86E-04 +/- 9.10E-06
44	710.50	7.26E-02 +/- 4.35E-02	1.59E+00	1.81E-04 +/- 8.85E-06
45	722.01	2.14E+00 +/- 1.72E-01	1.59E+00	1.78E-04 +/- 8.71E-06
46	767.14	1.87E-01 +/- 7.57E-02	1.57E+00	1.68E-04 +/- 8.15E-06
47	1001.03	4.43E-02 +/- 2.65E-02	1.48E+00	1.35E-04 +/- 5.36E-06
48	1112.12	4.94E-02 +/- 3.05E-02	1.45E+00	1.26E-04 +/- 4.65E-06
49	1408.01	2.04E-02 +/- 1.87E-02	1.39E+00	1.13E-04 +/- 7.00E-06
50	2236.00	1.00E+02 +/- 1.56E+00	1.32E+00	1.19E-04 +/- 2.92E-05

Segment: 9 Detector: DET01 (# 1) Position: 9

Elapsed Live Time: 107.58 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.092 +/- 0.0085
SE-75	264.65	0.000 +/- 0.0000	0.187 +/- 0.0047
SE-75	279.53	0.000 +/- 0.0000	0.187 +/- 0.0056
SE-75	400.65	0.000 +/- 0.0000	0.240 +/- 0.0084

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.09	2.53E+00 +/- 3.80E-01	3.65E+00	6.38E-09 +/- 3.83E-08
	2	50.21	3.10E+01 +/- 1.86E+00	2.74E+00	3.19E-06 +/- 7.81E-06
	3	60.18	1.13E+03 +/- 1.41E+01	2.56E+00	1.65E-05 +/- 2.58E-05
	4	99.64	4.50E+01 +/- 1.82E+00	2.28E+00	2.38E-04 +/- 5.54E-05
	5	103.69	2.31E+01 +/- 2.03E+00	2.26E+00	2.67E-04 +/- 4.87E-05
	6	111.72	1.56E+00 +/- 9.54E-01	2.24E+00	3.22E-04 +/- 3.46E-05
	7	115.20	5.50E+00 +/- 1.01E+00	2.22E+00	3.44E-04 +/- 2.92E-05
M	8	123.68	6.41E+00 +/- 4.13E-01	2.20E+00	3.93E-04 +/- 2.33E-05
m	9	125.97	2.89E+01 +/- 8.48E-01	2.19E+00	4.05E-04 +/- 2.41E-05
m	10	129.97	3.15E+01 +/- 8.93E-01	2.18E+00	4.24E-04 +/- 2.72E-05
	11	144.47	3.00E+00 +/- 7.13E-01	2.13E+00	4.77E-04 +/- 4.39E-05
	12	152.68	3.87E+00 +/- 6.10E-01	2.10E+00	4.97E-04 +/- 5.14E-05
	13	170.17	2.19E+00 +/- 5.77E-01	2.03E+00	5.21E-04 +/- 5.94E-05
	14	208.70	1.57E+01 +/- 7.60E-01	1.91E+00	5.11E-04 +/- 5.15E-05
M	15	264.96	6.12E-01 +/- 2.18E-01	1.77E+00	4.42E-04 +/- 2.71E-05
m	16	268.24	6.81E-01 +/- 2.31E-01	1.77E+00	4.38E-04 +/- 2.60E-05
	17	298.27	6.91E-01 +/- 3.72E-01	1.75E+00	3.99E-04 +/- 1.92E-05

	18	311.90	2.90E+00	+/-	3.57E-01	1.73E+00	3.83E-04	+/- 1.78E-05
	19	323.33	2.06E+00	+/-	4.25E-01	1.72E+00	3.70E-04	+/- 1.72E-05
M	20	333.38	6.68E+00	+/-	4.01E-01	1.71E+00	3.59E-04	+/- 1.71E-05
m	21	336.25	5.60E+00	+/-	3.59E-01	1.70E+00	3.56E-04	+/- 1.71E-05
	22	345.70	5.17E+00	+/-	3.17E-01	1.69E+00	3.46E-04	+/- 1.72E-05
	23	369.20	2.34E+00	+/-	4.17E-01	1.67E+00	3.24E-04	+/- 1.77E-05
	24	375.80	1.02E+01	+/-	5.64E-01	1.66E+00	3.18E-04	+/- 1.78E-05
M	25	380.99	1.66E+00	+/-	2.33E-01	1.66E+00	3.14E-04	+/- 1.79E-05
m	26	383.61	1.95E+00	+/-	2.38E-01	1.66E+00	3.11E-04	+/- 1.80E-05
	27	393.58	4.61E+00	+/-	3.32E-01	1.65E+00	3.03E-04	+/- 1.81E-05
	28	413.70	1.35E+01	+/-	4.25E-01	1.63E+00	2.88E-04	+/- 1.83E-05
M	29	423.45	9.43E-01	+/-	1.82E-01	1.62E+00	2.81E-04	+/- 1.83E-05
m	30	427.19	2.06E-01	+/-	7.78E-02	1.62E+00	2.79E-04	+/- 1.83E-05
	31	452.26	1.76E+00	+/-	1.90E-01	1.60E+00	2.63E-04	+/- 1.81E-05
	32	619.67	5.36E-01	+/-	1.14E-01	1.50E+00	1.95E-04	+/- 1.26E-05
	33	653.80	3.31E-01	+/-	1.23E-01	1.49E+00	1.86E-04	+/- 1.14E-05
	34	662.42	2.46E+00	+/-	1.71E-01	1.48E+00	1.84E-04	+/- 1.12E-05
	35	722.01	1.11E+00	+/-	1.31E-01	1.46E+00	1.72E-04	+/- 9.44E-06
	36	767.44	2.48E-01	+/-	7.09E-02	1.44E+00	1.64E-04	+/- 8.43E-06
	37	2236.00	1.00E+02	+/-	1.54E+00	1.25E+00	6.12E-05	+/- 3.31E-05
	38	2295.43	1.11E-01	+/-	4.81E-02	1.25E+00	5.85E-05	+/- 3.46E-05
	39	2617.61	1.11E-01	+/-	3.21E-02	1.24E+00	4.51E-05	+/- 4.04E-05

Segment: 10 Detector: DET01 (# 1) Position: 10

Elapsed Live Time: 110.93 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.185 +/- 0.0098
SE-75	264.65	0.000 +/- 0.0000	0.289 +/- 0.0067
SE-75	279.53	0.000 +/- 0.0000	0.298 +/- 0.0078
SE-75	400.65	0.000 +/- 0.0000	0.343 +/- 0.0103

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)			Correction Factor	Original Efficiency		
	1	32.24	2.11E+00	+/-	3.09E-01	2.72E+00	1.71E-05	+/-	1.68E-05
	2	50.11	2.10E+01	+/-	1.44E+00	2.14E+00	8.45E-05	+/-	4.22E-05
	3	60.18	6.25E+02	+/-	7.92E+00	2.03E+00	1.37E-04	+/-	4.88E-05
	4	99.65	1.92E+01	+/-	1.16E+00	1.85E+00	3.31E-04	+/-	3.39E-05
	5	103.70	8.77E+00	+/-	1.32E+00	1.84E+00	3.46E-04	+/-	3.15E-05
M	6	111.73	5.12E+00	+/-	5.08E-01	1.82E+00	3.72E-04	+/-	2.73E-05
m	7	115.36	5.98E+00	+/-	5.34E-01	1.81E+00	3.82E-04	+/-	2.58E-05
M	8	123.77	2.98E+00	+/-	2.78E-01	1.80E+00	4.03E-04	+/-	2.32E-05

m	9	125.97	1.33E+01	+/- 5.57E-01	1.79E+00	4.08E-04	+/-	2.27E-05
m	10	129.97	1.22E+01	+/- 5.17E-01	1.78E+00	4.16E-04	+/-	2.21E-05
	11	144.56	1.72E+00	+/- 4.34E-01	1.75E+00	4.39E-04	+/-	2.19E-05
	12	152.68	1.90E+00	+/- 4.10E-01	1.74E+00	4.47E-04	+/-	2.25E-05
	13	170.55	7.67E-01	+/- 4.67E-01	1.70E+00	4.58E-04	+/-	2.41E-05
	14	208.70	6.71E+00	+/- 4.71E-01	1.63E+00	4.56E-04	+/-	2.51E-05
	15	311.90	1.74E+00	+/- 3.00E-01	1.51E+00	3.87E-04	+/-	1.76E-05
	16	323.23	8.28E-01	+/- 2.12E-01	1.50E+00	3.78E-04	+/-	1.68E-05
M	17	333.39	2.02E+00	+/- 2.21E-01	1.50E+00	3.71E-04	+/-	1.62E-05
m	18	336.21	2.14E+00	+/- 2.31E-01	1.49E+00	3.69E-04	+/-	1.60E-05
	19	345.65	9.21E-01	+/- 2.31E-01	1.49E+00	3.62E-04	+/-	1.54E-05
	20	369.20	1.06E+00	+/- 2.74E-01	1.48E+00	3.45E-04	+/-	1.43E-05
	21	375.73	3.45E+00	+/- 3.27E-01	1.47E+00	3.40E-04	+/-	1.40E-05
M	22	380.98	4.30E-01	+/- 1.34E-01	1.47E+00	3.37E-04	+/-	1.38E-05
m	23	383.44	4.34E-01	+/- 1.26E-01	1.47E+00	3.35E-04	+/-	1.37E-05
	24	393.63	1.52E+00	+/- 1.82E-01	1.46E+00	3.28E-04	+/-	1.34E-05
	25	413.70	4.02E+00	+/- 2.25E-01	1.45E+00	3.15E-04	+/-	1.29E-05
	26	452.48	4.96E-01	+/- 1.25E-01	1.43E+00	2.92E-04	+/-	1.22E-05
	27	583.81	2.12E-01	+/- 5.99E-02	1.38E+00	2.32E-04	+/-	1.11E-05
	28	619.43	2.03E-01	+/- 7.37E-02	1.36E+00	2.19E-04	+/-	1.08E-05
	29	662.42	8.89E-01	+/- 1.05E-01	1.35E+00	2.06E-04	+/-	1.03E-05
	30	722.01	4.73E-01	+/- 7.59E-02	1.33E+00	1.89E-04	+/-	9.55E-06
	31	964.13	3.62E-02	+/- 2.90E-02	1.28E+00	1.45E-04	+/-	6.11E-06
	32	1408.01	4.07E-02	+/- 2.69E-02	1.22E+00	1.09E-04	+/-	6.83E-06
	33	2236.00	1.00E+02	+/- 1.52E+00	1.18E+00	9.04E-05	+/-	2.29E-05

Segment: 11 Detector: DET01 (# 1) Position: 11

Elapsed Live Time: 113.09 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.202 +/- 0.0096
SE-75	264.65	0.000 +/- 0.0000	0.304 +/- 0.0069
SE-75	279.53	0.000 +/- 0.0000	0.303 +/- 0.0078
SE-75	400.65	0.000 +/- 0.0000	0.369 +/- 0.0107

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.20	7.64E-01 +/- 1.71E-01	2.61E+00	1.31E-03 +/- 8.42E-03
2	49.89	4.79E+00 +/- 8.37E-01	2.08E+00	6.02E-04 +/- 1.61E-03
3	60.17	1.75E+02 +/- 2.59E+00	1.96E+00	5.03E-04 +/- 8.46E-04
4	100.32	1.52E+01 +/- 9.75E-01	1.79E+00	4.09E-04 +/- 9.71E-05
M 5	123.71	8.73E-01 +/- 1.78E-01	1.75E+00	4.00E-04 +/- 2.34E-05

m	6	126.03	2.71E+00 +/-	2.73E-01	1.74E+00	4.00E-04 +/-	2.38E-05
m	7	129.94	3.45E+00 +/-	3.19E-01	1.74E+00	3.99E-04 +/-	2.63E-05
	8	152.68	3.65E+00 +/-	3.35E-01	1.69E+00	3.97E-04 +/-	4.46E-05
	9	208.75	1.80E+00 +/-	2.27E-01	1.60E+00	3.88E-04 +/-	4.33E-05
	10	311.90	6.80E-01 +/-	1.72E-01	1.49E+00	3.53E-04 +/-	1.69E-05
M	11	333.45	5.78E-01 +/-	1.21E-01	1.48E+00	3.43E-04 +/-	1.63E-05
m	12	336.19	5.84E-01 +/-	1.22E-01	1.47E+00	3.42E-04 +/-	1.63E-05
	13	345.87	3.60E-01 +/-	1.09E-01	1.47E+00	3.38E-04 +/-	1.66E-05
	14	375.67	1.03E+00 +/-	1.79E-01	1.44E+00	3.25E-04 +/-	1.79E-05
	15	380.72	3.26E-01 +/-	1.14E-01	1.44E+00	3.23E-04 +/-	1.81E-05
	16	393.47	2.49E-01 +/-	8.69E-02	1.43E+00	3.17E-04 +/-	1.87E-05
	17	413.70	1.19E+00 +/-	1.26E-01	1.42E+00	3.08E-04 +/-	1.94E-05
	18	452.71	1.00E-01 +/-	5.30E-02	1.40E+00	2.91E-04 +/-	2.00E-05
	19	662.42	2.39E-01 +/-	5.84E-02	1.32E+00	2.15E-04 +/-	1.30E-05
	20	722.01	4.19E-02 +/-	2.73E-02	1.31E+00	1.97E-04 +/-	1.08E-05
	21	767.65	1.06E-01 +/-	4.35E-02	1.30E+00	1.86E-04 +/-	9.41E-06
	22	1085.91	2.81E-02 +/-	2.01E-02	1.24E+00	1.27E-04 +/-	5.57E-06
	23	2236.00	1.00E+02 +/-	1.51E+00	1.17E+00	5.79E-05 +/-	3.30E-05

Segment: 12 Detector: DET01 (# 1) Position: 12

Elapsed Live Time: 113.69 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.208 +/- 0.0099
SE-75	264.65	0.000 +/- 0.0000	0.298 +/- 0.0068
SE-75	279.53	0.000 +/- 0.0000	0.299 +/- 0.0077
SE-75	400.65	0.000 +/- 0.0000	0.351 +/- 0.0103

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.71	6.04E-01 +/- 1.48E-01	2.61E+00	1.94E-09 +/- 1.22E-08
2	49.63	2.52E+00 +/- 6.66E-01	2.06E+00	1.90E-06 +/- 4.89E-06
3	60.16	4.83E+01 +/- 1.09E+00	1.94E+00	1.30E-05 +/- 2.08E-05
4	95.32	1.51E+00 +/- 5.46E-01	1.79E+00	2.01E-04 +/- 6.10E-05
5	100.58	1.69E+01 +/- 7.37E-01	1.77E+00	2.42E-04 +/- 5.43E-05
6	111.70	7.27E-01 +/- 4.29E-01	1.75E+00	3.26E-04 +/- 3.51E-05
7	129.29	1.72E+00 +/- 2.85E-01	1.72E+00	4.34E-04 +/- 2.74E-05
8	152.68	3.32E+00 +/- 2.95E-01	1.68E+00	5.19E-04 +/- 5.50E-05
9	208.89	5.06E-01 +/- 1.83E-01	1.60E+00	5.30E-04 +/- 5.51E-05
10	311.90	3.15E-01 +/- 1.40E-01	1.50E+00	3.88E-04 +/- 1.81E-05
11	333.67	3.24E-01 +/- 1.12E-01	1.49E+00	3.62E-04 +/- 1.72E-05
12	375.83	4.34E-01 +/- 1.33E-01	1.46E+00	3.19E-04 +/- 1.78E-05

13	393.74	2.69E-01 +/-	8.05E-02	1.45E+00	3.03E-04 +/-	1.82E-05
14	413.70	8.02E-01 +/-	1.01E-01	1.44E+00	2.87E-04 +/-	1.84E-05
15	512.15	2.69E-01 +/-	7.24E-02	1.40E+00	2.30E-04 +/-	1.67E-05
16	1085.91	2.60E-02 +/-	1.89E-02	1.25E+00	1.28E-04 +/-	5.60E-06
17	1408.01	2.60E-02 +/-	1.50E-02	1.22E+00	1.08E-04 +/-	7.12E-06
18	2236.00	1.00E+02 +/-	1.50E+00	1.18E+00	6.48E-05 +/-	3.54E-05

Segment: 13 Detector: DET01 (# 1) Position: 13

Elapsed Live Time: 113.91 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.350 +/- 0.0135
SE-75	264.65	0.000 +/- 0.0000	0.436 +/- 0.0096
SE-75	279.53	0.000 +/- 0.0000	0.442 +/- 0.0107
SE-75	400.65	0.000 +/- 0.0000	0.465 +/- 0.0128

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.99	5.47E-01 +/- 1.53E-01	1.98E+00	1.69E-08 +/- 1.10E-07
2	49.20	3.17E+00 +/- 6.40E-01	1.66E+00	4.26E-06 +/- 1.18E-05
3	60.16	2.55E+01 +/- 7.94E-01	1.59E+00	2.29E-05 +/- 3.87E-05
4	100.61	1.28E+01 +/- 6.10E-01	1.49E+00	2.58E-04 +/- 6.05E-05
5	104.14	3.20E-01 +/- 1.66E-01	1.48E+00	2.82E-04 +/- 5.30E-05
6	129.29	1.37E+00 +/- 2.75E-01	1.46E+00	4.16E-04 +/- 2.70E-05
7	152.68	3.14E+00 +/- 2.56E-01	1.44E+00	4.81E-04 +/- 5.38E-05
8	204.48	3.80E-01 +/- 1.61E-01	1.39E+00	4.91E-04 +/- 5.53E-05
9	208.68	3.10E-01 +/- 1.16E-01	1.39E+00	4.88E-04 +/- 5.34E-05
10	311.90	2.38E-01 +/- 9.11E-02	1.34E+00	3.74E-04 +/- 1.79E-05
11	333.65	2.52E-01 +/- 1.10E-01	1.33E+00	3.52E-04 +/- 1.73E-05
12	375.80	2.66E-01 +/- 1.07E-01	1.32E+00	3.16E-04 +/- 1.85E-05
13	413.70	4.09E-01 +/- 7.31E-02	1.31E+00	2.89E-04 +/- 1.94E-05
14	662.42	7.36E-02 +/- 3.57E-02	1.24E+00	1.92E-04 +/- 1.21E-05
15	964.13	2.76E-02 +/- 1.94E-02	1.20E+00	1.45E-04 +/- 6.45E-06
16	1112.12	8.66E-03 +/- 8.67E-03	1.18E+00	1.30E-04 +/- 5.64E-06
17	2236.00	1.00E+02 +/- 1.50E+00	1.13E+00	5.36E-05 +/- 3.03E-05

Segment: 14 Detector: DET01 (# 1) Position: 14

Elapsed Live Time: 113.99 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.264 +/- 0.0104
SE-75	264.65	0.000 +/- 0.0000	0.371 +/- 0.0082
SE-75	279.53	0.000 +/- 0.0000	0.381 +/- 0.0093
SE-75	400.65	0.000 +/- 0.0000	0.410 +/- 0.0116

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.96	2.09E-01 +/- 1.09E-01	2.30E+00	3.42E-06 +/- 2.07E-05
	2	49.88	1.75E+00 +/- 4.56E-01	1.87E+00	4.57E-05 +/- 1.14E-04
M	3	57.41	6.21E+00 +/- 3.61E-01	1.80E+00	8.10E-05 +/- 1.43E-04
m	4	60.07	1.25E+01 +/- 5.61E-01	1.78E+00	9.53E-05 +/- 1.50E-04
	5	100.58	1.45E+01 +/- 6.13E-01	1.64E+00	3.24E-04 +/- 7.14E-05
	6	129.29	1.90E+00 +/- 2.62E-01	1.60E+00	4.20E-04 +/- 2.62E-05
	7	152.68	3.85E+00 +/- 2.66E-01	1.56E+00	4.55E-04 +/- 4.75E-05
	8	208.90	3.69E-01 +/- 1.61E-01	1.49E+00	4.54E-04 +/- 4.69E-05
	9	346.23	1.84E-01 +/- 6.63E-02	1.39E+00	3.44E-04 +/- 1.65E-05
	10	375.88	2.51E-01 +/- 8.99E-02	1.38E+00	3.22E-04 +/- 1.72E-05
	11	393.62	1.33E-01 +/- 6.53E-02	1.38E+00	3.10E-04 +/- 1.77E-05
	12	413.70	3.62E-01 +/- 7.97E-02	1.37E+00	2.98E-04 +/- 1.80E-05
	13	443.98	8.87E-02 +/- 4.31E-02	1.36E+00	2.80E-04 +/- 1.81E-05
	14	722.01	4.11E-02 +/- 3.17E-02	1.27E+00	1.81E-04 +/- 9.66E-06
	15	1085.91	4.33E-02 +/- 1.94E-02	1.21E+00	1.28E-04 +/- 5.58E-06
	16	2236.00	1.00E+02 +/- 1.50E+00	1.15E+00	7.64E-05 +/- 4.15E-05

Segment: 15 Detector: DET01 (# 1) Position: 15

Elapsed Live Time: 114.13 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.497 +/- 0.0162
SE-75	264.65	0.000 +/- 0.0000	0.567 +/- 0.0123
SE-75	279.53	0.000 +/- 0.0000	0.571 +/- 0.0133
SE-75	400.65	0.000 +/- 0.0000	0.617 +/- 0.0162

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.03	3.34E-01 +/- 1.10E-01	1.61E+00	1.17E-09 +/- 7.43E-09
2	49.86	2.99E+00 +/- 4.67E-01	1.42E+00	1.71E-06 +/- 4.49E-06
3	60.20	8.01E+00 +/- 4.63E-01	1.38E+00	1.24E-05 +/- 2.03E-05
4	100.56	8.10E+00 +/- 4.77E-01	1.31E+00	2.42E-04 +/- 5.56E-05
5	115.44	5.62E-01 +/- 2.34E-01	1.30E+00	3.46E-04 +/- 2.87E-05
6	129.29	1.66E+00 +/- 2.17E-01	1.29E+00	4.21E-04 +/- 2.67E-05
7	152.68	2.37E+00 +/- 2.15E-01	1.28E+00	4.90E-04 +/- 5.37E-05
8	208.94	3.49E-01 +/- 1.59E-01	1.25E+00	4.80E-04 +/- 5.22E-05
9	255.78	1.37E-01 +/- 9.38E-02	1.23E+00	4.17E-04 +/- 3.02E-05
10	333.37	3.50E-01 +/- 9.63E-02	1.21E+00	3.24E-04 +/- 1.53E-05
11	345.66	9.69E-02 +/- 6.09E-02	1.21E+00	3.13E-04 +/- 1.53E-05
12	375.87	3.86E-01 +/- 8.20E-02	1.20E+00	2.88E-04 +/- 1.59E-05
13	393.63	1.33E-01 +/- 6.13E-02	1.20E+00	2.75E-04 +/- 1.62E-05
14	413.70	4.97E-01 +/- 8.05E-02	1.19E+00	2.62E-04 +/- 1.65E-05
15	662.42	1.04E-01 +/- 2.99E-02	1.15E+00	1.75E-04 +/- 1.08E-05
16	778.90	4.53E-02 +/- 3.46E-02	1.14E+00	1.56E-04 +/- 8.00E-06
17	1408.01	2.59E-02 +/- 1.50E-02	1.10E+00	9.07E-05 +/- 6.42E-06
18	2236.00	1.00E+02 +/- 1.49E+00	1.08E+00	3.18E-05 +/- 1.80E-05

Segment: 16 Detector: DET01 (# 1) Position: 16

Elapsed Live Time: 114.23 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.816 +/- 0.0230
SE-75	264.65	0.000 +/- 0.0000	0.844 +/- 0.0181
SE-75	279.53	0.000 +/- 0.0000	0.845 +/- 0.0192
SE-75	400.65	0.000 +/- 0.0000	0.882 +/- 0.0221

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	49.98	2.55E+00 +/- 4.28E-01	1.11E+00	3.03E-05 +/- 1.84E-05
2	60.20	7.85E+00 +/- 3.58E-01	1.10E+00	5.63E-05 +/- 2.42E-05
3	100.49	3.20E+00 +/- 3.99E-01	1.09E+00	1.72E-04 +/- 2.05E-05
4	104.99	3.14E-01 +/- 2.04E-01	1.08E+00	1.82E-04 +/- 1.92E-05
5	111.83	4.86E-01 +/- 1.76E-01	1.08E+00	1.97E-04 +/- 1.73E-05
6	129.29	1.68E+00 +/- 1.96E-01	1.08E+00	2.27E-04 +/- 1.46E-05
7	152.68	9.80E-01 +/- 1.60E-01	1.08E+00	2.51E-04 +/- 1.54E-05
8	208.75	2.81E-01 +/- 1.17E-01	1.07E+00	2.62E-04 +/- 1.78E-05
9	375.65	3.42E-01 +/- 7.05E-02	1.05E+00	1.94E-04 +/- 9.73E-06
10	413.70	3.97E-01 +/- 6.70E-02	1.05E+00	1.79E-04 +/- 8.85E-06
11	964.13	3.96E-02 +/- 2.54E-02	1.03E+00	8.21E-05 +/- 4.35E-06
12	1408.01	4.36E-02 +/- 1.95E-02	1.02E+00	6.48E-05 +/- 4.76E-06
13	2236.00	1.00E+02 +/- 1.50E+00	1.02E+00	6.28E-05 +/- 1.87E-05

Summed Spectrum

Peak Locate Report

Sample ID: LL85234328
Peak Locate Performed on: 5-01-08 10:47:31 AM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192
Peak Search Sensitivity: 5.00

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
1	64.77	0.1611	32.05	15.95
2	100.63	0.1283	49.98	21.49
3	121.02	0.0293	60.17	506.09
4	200.20	0.0587	99.77	114.28
5	208.08	0.0597	103.71	124.36
6	224.04	0.1266	111.69	26.72
7	231.75	0.1495	115.54	15.83
8	247.45	0.2692	123.72	7.65
9	252.77	0.0797	125.98	72.01
10	260.69	0.0715	129.98	82.84
11	289.86	0.2888	144.76	8.02
12	294.98	0.1741	147.11	17.24
13	307.63	0.0966	153.48	44.85
14	341.11	0.2223	170.22	10.00
15	381.00	0.2703	190.17	6.40
16	393.37	0.2692	196.35	5.84
17	418.05	0.0782	208.69	68.97
18	512.89	0.2363	256.11	7.82
19	596.79	0.3014	298.06	5.06
20	625.90	0.1411	312.61	20.38
21	647.43	0.1817	323.38	10.64
22	667.15	0.1147	333.38	33.09
23	673.34	0.1253	336.22	28.63
24	692.07	0.1088	345.70	34.56
25	739.06	0.1423	369.20	20.12
26	752.25	0.0812	375.79	56.61
27	762.17	0.1523	380.95	19.83
28	768.02	0.1640	383.58	16.93
29	787.90	0.1114	393.62	30.99
30	829.53	0.0794	414.43	55.06
31	847.37	0.1615	423.38	14.58
32	855.03	0.2586	427.22	6.50
33	905.24	0.1428	452.29	18.45
34	1024.12	0.1891	511.72	7.73
35	1168.61	0.2308	583.97	6.71
36	1240.08	0.2065	619.70	8.63

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
37	1307.82	0.2333	653.58	6.88
38	1326.98	0.1204	663.15	24.32
39	1446.27	0.1419	722.80	17.08
40	1535.48	0.2422	767.41	5.48
41	2551.98	0.2328	1275.66	5.80
42	4473.08	0.0264	2236.20	409.54

Errors quoted at 1.000 sigma

Summed Spectrum

Peak Analysis Report

Sample ID: LL85234328
Peak Analysis Performed on: 5-01-08 10:47:31 AM
Peak Analysis From Channel: 40
Peak Analysis To Channel: 8192

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	1	61-	71	64.77	32.05	2.26E+03	109.88	3.50E+03
	2	94-	105	100.63	49.98	1.65E+04	442.18	6.71E+04
	3	114-	127	121.02	60.17	4.71E+05	823.61	7.53E+04
	4	194-	206	200.20	99.77	4.88E+03	543.18	1.02E+05
	5	206-	214	208.08	103.71	2.73E+04	321.34	2.80E+04
	6	217-	227	224.04	111.69	9.72E+02	233.69	2.21E+04
	7	227-	238	231.75	115.54	2.67E+03	258.46	2.50E+04
M	8	245-	265	248.11	123.72	2.65E+03	94.95	9.81E+03
m	9	245-	265	252.63	125.98	1.22E+04	172.88	8.82E+03
m	10	245-	265	260.64	129.98	1.40E+04	186.10	7.01E+03
M	11	282-	303	290.18	144.76	2.67E+02	61.47	6.40E+03
m	12	282-	303	294.90	147.11	7.74E+02	97.66	7.26E+03
	13	303-	314	307.63	153.48	3.81E+03	179.84	1.13E+04
	14	338-	348	341.11	170.22	9.14E+02	142.82	8.16E+03
	15	378-	384	381.00	190.17	1.94E+02	91.87	4.36E+03
	16	390-	400	393.37	196.35	5.51E+02	125.32	6.34E+03
	17	413-	425	418.05	208.69	6.40E+03	169.64	8.26E+03
	18	510-	517	512.89	256.11	2.15E+02	70.55	2.36E+03
	19	593-	604	596.79	298.06	3.79E+02	82.28	2.55E+03
	20	621-	631	625.90	312.61	1.04E+03	81.55	2.34E+03
	21	639-	654	647.43	323.38	7.54E+02	102.45	3.24E+03
M	22	659-	680	667.43	333.38	2.86E+03	85.20	1.74E+03
m	23	659-	680	673.11	336.22	2.36E+03	75.77	1.81E+03
	24	691-	699	692.07	345.70	2.20E+03	71.12	1.21E+03
	25	731-	746	739.06	369.20	1.07E+03	94.75	2.61E+03
	26	746-	759	752.25	375.79	4.42E+03	123.08	3.75E+03
M	27	759-	775	762.57	380.95	7.88E+02	53.35	1.34E+03
m	28	759-	775	767.83	383.58	8.55E+02	52.42	1.01E+03
	29	780-	795	787.90	393.62	2.03E+03	75.96	1.25E+03
	30	821-	837	829.53	414.43	5.67E+03	94.53	1.05E+03
M	31	843-	859	847.44	423.38	3.55E+02	40.57	4.41E+02
m	32	843-	859	855.10	427.22	9.80E+01	19.00	4.25E+02
	33	897-	911	905.24	452.29	6.42E+02	48.30	5.87E+02
	34	1016-	1032	1024.12	511.72	5.78E+02	44.48	4.41E+02
	35	1163-	1172	1168.61	583.97	8.10E+01	21.79	1.75E+02
	36	1231-	1248	1240.08	619.70	1.60E+02	33.34	2.92E+02
	37	1299-	1316	1307.82	653.58	7.82E+01	32.91	3.06E+02

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
38	1322-	1335	1326.98	663.15	1.06E+03	39.67	1.89E+02
39	1440-	1451	1446.27	722.80	5.37E+02	30.15	1.49E+02
40	1527-	1543	1535.48	767.41	1.30E+02	24.03	1.43E+02
41	2546-	2557	2551.98	1275.66	7.59E+01	13.61	4.31E+01
42	4462-	4483	4473.08	2236.20	1.82E+05	427.32	2.76E+02

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Summed Spectrum

Nuclide Identification Report

Sample ID: LL85234328
Nuclide Library Used: C:\WAS\NLIB\LLNL.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (uCi/)	Activity Uncertainty
Pulser	0.997	2236.00*	100.00	7.935E+02	1.750E+02
Np-237	0.733	300.10	6.63		
		311.90*	38.60	2.891E+00	2.279E-01
Pu-238	0.955	152.68*	0.00	4.021E+05	2.034E+04
Pu-239	0.963	413.70*	0.00	4.951E+05	1.232E+04
Pu-239A	0.967	129.29*	0.01	2.510E+05	6.699E+03
Am-241	0.962	662.42*	0.00	4.927E+05	1.899E+04
Am-241D	0.956	722.01*	0.00	5.446E+05	3.099E+04
Pu-241	0.861	148.57*	0.00	4.199E+05	5.355E+04

* = Energy line found in the spectrum.
Energy Tolerance : 1.500 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 5-01-08 10:47:31 AM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192

	Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
	1	32.05	2.0031E+01	4.86
	2	49.98	1.4611E+02	2.69
	3	60.17	4.1645E+03	0.31
	4	99.77	4.3180E+01	11.13
	5	103.71	2.4161E+02	1.20
	6	111.69	8.5978E+00	24.04
	7	115.54	2.3643E+01	9.67
M	8	123.72	2.3402E+01	3.60
m	9	125.98	1.0817E+02	1.44
M	11	144.76	2.3611E+00	23.02
	14	170.22	8.0851E+00	15.62
	15	190.17	1.7128E+00	47.44
	16	196.35	4.8744E+00	22.74
	17	208.69	5.6638E+01	2.66
	18	256.11	1.9002E+00	32.84
	19	298.06	3.3479E+00	21.74
	21	323.38	6.6669E+00	13.59
M	22	333.38	2.5270E+01	2.99
m	23	336.22	2.0851E+01	3.22
	24	345.70	1.9416E+01	3.25
	25	369.20	9.4480E+00	8.87
	26	375.79	3.9115E+01	2.79
M	27	380.95	6.9706E+00	6.77
m	28	383.58	7.5590E+00	6.14
	29	393.62	1.7976E+01	3.75
M	31	423.38	3.1399E+00	11.43
m	32	427.22	8.6660E-01	19.39
	33	452.29	5.6743E+00	7.53
	34	511.72	5.1130E+00	7.70
	35	583.97	7.1653E-01	26.89
	36	619.70	1.4161E+00	20.82
	37	653.58	6.9171E-01	42.07
	40	767.41	1.1475E+00	18.53
	41	1275.66	6.7160E-01	17.92

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Combined Segment NID

NID Results Combiner Mode: Sum Activities

Nuclide		Total Activity (uCi)		Concentration (uCi/g)	
Pulser		8.82E+02 +/- 1.31E+02		1.93E-02 +/- 2.86E-03	
SE-75	<	1.90E-01 +/- 9.72E-03	<	4.15E-06 +/- 2.12E-07	
EU-152x	<	2.43E-01 +/- 1.51E-02	<	5.30E-06 +/- 3.30E-07	
U-233	<	1.05E+04 +/- 5.45E+02	<	2.28E-01 +/- 1.19E-02	
U-235		5.53E-02 +/- 3.86E-02		1.21E-06 +/- 8.42E-07	
Np-237		3.11E+00 +/- 2.84E-01		6.79E-05 +/- 6.21E-06	
Pu-238		4.63E+05 +/- 2.24E+04		1.01E+01 +/- 4.90E-01	
U-238		4.81E+00 +/- 1.36E+00		1.05E-04 +/- 2.97E-05	
Pu-239		5.39E+05 +/- 1.69E+04		1.18E+01 +/- 3.69E-01	
Pu-239A		2.83E+05 +/- 9.13E+03		6.18E+00 +/- 1.99E-01	
Am-241		5.31E+05 +/- 2.36E+04		1.16E+01 +/- 5.16E-01	
Am-241D		5.95E+05 +/- 3.55E+04		1.30E+01 +/- 7.74E-01	
Pu-241		2.47E+04 +/- 1.53E+04		5.38E-01 +/- 3.34E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)
U-235	2.56E-02 +/- 1.79E-02
Np-237	4.42E-03 +/- 4.04E-04
Pu-238	2.70E-02 +/- 1.31E-03
U-238	1.43E+01 +/- 4.06E+00
Pu-239	8.67E+00 +/- 2.72E-01
Pu-239A	4.56E+00 +/- 1.47E-01
Am-241	1.55E-01 +/- 6.89E-03
Pu-241	2.38E-04 +/- 1.48E-04

Summed Spectrum

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		7.93E+02	+/-	1.75E+02	1.73E-02	+/-	3.82E-03
SE-75	<	6.56E-01	+/-	5.73E-03	< 1.43E-05	+/-	1.25E-07
EU-152x	<	6.69E-01	+/-	1.17E-02	< 1.46E-05	+/-	2.56E-07
U-233	<	3.92E+04	+/-	8.19E+02	< 8.57E-01	+/-	1.79E-02
U-235	<	9.30E-01	+/-	2.06E-02	< 2.03E-05	+/-	4.50E-07
Np-237		2.89E+00	+/-	2.28E-01	6.31E-05	+/-	4.98E-06
Pu-238		4.02E+05	+/-	2.03E+04	8.78E+00	+/-	4.44E-01
U-238	<	1.75E+01	+/-	2.75E-01	< 3.81E-04	+/-	6.01E-06
Pu-239		4.95E+05	+/-	1.23E+04	1.08E+01	+/-	2.69E-01
Pu-239A		2.51E+05	+/-	6.70E+03	5.48E+00	+/-	1.46E-01
Am-241		4.93E+05	+/-	1.90E+04	1.08E+01	+/-	4.15E-01
Am-241D		5.45E+05	+/-	3.10E+04	1.19E+01	+/-	6.77E-01
Pu-241		4.20E+05	+/-	5.36E+04	9.17E+00	+/-	1.17E+00

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
Np-237	4.10E-03	+/-	3.24E-04
Pu-238	2.35E-02	+/-	1.19E-03
Pu-239	7.97E+00	+/-	1.98E-01
Pu-239A	4.04E+00	+/-	1.08E-01
Am-241	1.44E-01	+/-	5.54E-03
Pu-241	4.06E-03	+/-	5.18E-04

Final Non-Uniformity Results

Source Longitudinal Ratio: 0.964 +/- 18.7519
Matrix Longitudinal Ratio: 0.716 +/- 0.0748

Source Vertical Ratio: 0.774 +/- 0.3953
Matrix Vertical Ratio: 0.880 +/- 0.0253

NUDS could not find the transmission peak in one radial segment.

Radioassay Data Sheet — Thu May 1 11:13:02 2008
Procedure ID & Rev: WCP-55 03/07/2002 — Software Version: GWAS v2.3bGEN

Drum ID	: LL85234322	Gross Weight (kg)	: 59.8
Sequence Number	: 2667	Fill Height (%)	: 100.0
Assay Date	: 04/08/08 15:08:12	Density (g/cc)	: 0.17
		Net Weight (kg)	: 36.00
Batch Number	:	Waste Matrix Code	:
Site ID	:	TRUCON	:

	Errors at 1.00 Sigma		
TRU Alpha Activity Concentration:	9.78e-05	+/- 1.34e-05	Ci/g
Total Pu-239 Equiv Activity:	3.61e+00	+/- 4.81e-01	Ci
Total Pu-239 Fissile Gram Equiv:	4.17e+01	+/- 7.47e+00	g
Decay Heat:	1.12e-01	+/- 1.52e-02	W
Total Pu Mass:	4.25e+01	+/- 7.48e+00	g
TMU:	18.74%		
Waste Classification:	TRU		

Isotopics Data

Measured Isotope	MGA Report Weight %	MGA Report % Err (1.00 Sigma)
Pu-238	1.72e-02	4.75e+00
Pu-239	9.37e+01	7.39e-02
Pu-240	6.16e+00	1.11e+00
Pu-241	1.17e-01	2.31e+00
Pu-242	3.08e-02	1.00e+01
Am-241	4.50e-01	7.04e-01
Am-243	0.00e+00	0.00e+00
Np-237	0.00e+00	0.00e+00
U-235	9.75e+00	4.30e+00

Activity Errors

Isotope	Isotope Mass (g)	1.00 Sigma Error/Isotope Mass (g)	Alpha Activity/ Isotope (Ci)	1.00 Sigma Error/Isotope (Ci)	MDA (g)
Pu-238	7.30e-03	1.41e-03	1.25e-01	2.42e-02	1.61e-03
Pu-239	3.99e+01	7.47e+00	2.47e+00	4.63e-01	1.38e-01
Pu-240	2.62e+00	4.92e-01	5.95e-01	1.12e-01	0.00e+00
Pu-241	4.99e-02	9.41e-03	5.15e+00	9.73e-01	1.73e-03
Pu-242	1.31e-02	2.78e-03	5.14e-05	1.09e-05	0.00e+00
Am-241	9.63e-02	1.82e-02	3.29e-01	6.22e-02	6.03e-03
Am-243	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
Np-237	2.37e-02	4.32e-03	1.67e-05	3.05e-06	7.65e-04
U-235	1.70e+00	3.24e-01	3.67e-06	7.00e-07	1.77e-01
*U-238	<LLD	0.00e+00	0.00e+00	0.00e+00	1.98e+01
*U-233	<LLD	0.00e+00	0.00e+00	0.00e+00	1.96e+00
CS-137	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
U-234	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
SR-90	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00

* = Activity/Mass below detectable limit.

Operator Signature — Date

Robert J Hazlett Jr

Reviewer Signature — Date 5-1-08

AUTOMATED INDEPENDENT TECHNICAL REVIEW BASED ON WCP-55 03/07/2002

Software Version: GWAS v2.3bGEN
Counter Number: SGS
Data Review for Container: LL85234322
Item Description Code: \Count Type: DEBRIS
Sequence Number: 2667
Assayed on: 04/08/08 15:08:12
Report Generated: 05/01/08 11:12:47
AITR Version 1.4

Section 1 MGA Analysis Review Using MGA Isotopics

REVIEW Pu-240 Wt Pct -2 Sigma error <6.02> greater than <5.87> Review MGA Results OK
Pu-240 Wt Pct error <1.11> is within limits
Pu-238 Wt Pct error <4.75> is within limits
QFIT <1.00> is within limits
REVIEW MGAERR12: Calculations in MGAABS didn't converge: MGA results may be suspect OK

Section 2 - CONTAINER DENSITY REVIEW

Container density <0.173> g/cc is within UPPER and LOWER limits

Section 3 - SELF-ABSORPTION REVIEW

Pu-239/Pu-239a ratio <1.96e+00> is within limits

Section 4 - PULSER REVIEW

DEAD TIME percentage <6.72> is acceptable in Segment 1
Pulser value <1.00> is within range in Segment 1
DEAD TIME percentage <7.36> is acceptable in Segment 2
Pulser value <1.01> is within range in Segment 2
DEAD TIME percentage <4.28> is acceptable in Segment 3
Pulser value <0.99> is within range in Segment 3
DEAD TIME percentage <1.67> is acceptable in Segment 4
Pulser value <0.99> is within range in Segment 4
DEAD TIME percentage <1.13> is acceptable in Segment 5
Pulser value <0.99> is within range in Segment 5
DEAD TIME percentage <0.98> is acceptable in Segment 6
Pulser value <0.99> is within range in Segment 6
DEAD TIME percentage <0.97> is acceptable in Segment 7
Pulser value <0.99> is within range in Segment 7
DEAD TIME percentage <1.10> is acceptable in Segment 8
Pulser value <0.99> is within range in Segment 8
DEAD TIME percentage <1.45> is acceptable in Segment 9
Pulser value <0.99> is within range in Segment 9
DEAD TIME percentage <2.02> is acceptable in Segment 10
Pulser value <0.99> is within range in Segment 10
DEAD TIME percentage <3.38> is acceptable in Segment 11
Pulser value <0.99> is within range in Segment 11
DEAD TIME percentage <4.94> is acceptable in Segment 12
Pulser value <0.99> is within range in Segment 12
DEAD TIME percentage <3.81> is acceptable in Segment 13
Pulser value <1.00> is within range in Segment 13
DEAD TIME percentage <1.54> is acceptable in Segment 14
Pulser value <0.99> is within range in Segment 14
DEAD TIME percentage <0.84> is acceptable in Segment 15
Pulser value <0.99> is within range in Segment 15
DEAD TIME percentage <0.72> is acceptable in Segment 16
Pulser value <0.99> is within range in Segment 16

Section 5 - TRANSMISSION REVIEW

Transmission results are acceptable in Segment 1
Transmission results are acceptable in Segment 2
Transmission results are acceptable in Segment 3
Transmission results are acceptable in Segment 4
Transmission results are acceptable in Segment 5
Transmission results are acceptable in Segment 6

Transmission results are acceptable in Segment 7
Transmission results are acceptable in Segment 8
Transmission results are acceptable in Segment 9
Transmission results are acceptable in Segment 10
Transmission results are acceptable in Segment 11
Transmission results are acceptable in Segment 12
Transmission results are acceptable in Segment 13
Transmission results are acceptable in Segment 14
Transmission results are acceptable in Segment 15
Transmission results are acceptable in Segment 16

Section 6 - REDUCED CHI SQUARED FIT REVIEW

All energy peaks within <3.00e+00> RCHISQ limit

Section 7 - FGE MASS REVIEW

FGE Mass <49.20> is within limits

Section 8 - PERCENT FULL REVIEW

Percent Full <100.0> is above lower limit <30.0>

Section 9 - IDC COUNT TYPE REVIEW

REVIEW IDC is not available

Section 10 - AM-241 & NP-237 INTERFERENCE REVIEW

Am-241 ratio <413.93> is above lower limit <200.00>
Np-237 ratio <1682.52> is above lower limit <125.00>

Section 11 - PU-239 CALIBRATION RANGE REVIEW

Pu-239 <39.86> is within limits

Section 12 - CS-137 INTERFERENCE REVIEW

Am-241D > Am-241A: Calculation not performed Ok. Checked.

Independent Reviewer: Robert J Haslett Date: 5-1-08

INDEPENDENT TECHNICAL REVIEW COMMENT SHEET

Counter Number: SGS
Data Review for Container: LL85234322
Item Description Code:
Sequence Number: 2667
Assayed on: 04/08/08 15:08:12
AITR Version 1.4

Comments	Disposition
SECTION 1 - MGA	
Pu-240 Wt Pct -2 Sigma error is greater than upper limit.	OK
MGAERR12	OK
SECTION 9 - IDC COUNT TYPE	
IDC is not available.	N/A

Technical Reviewer: Robert J. Haskett Date: 5-1-08

****
***** M G A R E P O R T *****
****

Report generated on: 5-01-08 11:10:23 AM

MGA version: MGA V9.5 CI

Spectrum ID: 11202667.CNF Sens : 30.0% LT: 53.8 Mins DT: 4.12
Measurement date: 4-08-08 Declared date: 4-08-08

Sample ID: LL85234322 Detector: Total counts: 4.166E+06

Pu g/cm2 = 0.3062 Cd g/cm2 = 1.6251 FWHM at 122 keV = 622 eV
QFIT = 1.00 FWHM at 208 keV = 795 eV
NQFIT = 1.00

Isotope	Relative to Pu-239	%* Err	% Err	Relative to Pu-241	%* Err	Isotope analysis at Meas. date % weight	%Err	Decl. date % weight	%Err
Pu-238	0.000183	4.8	4.7	0.1464	5.0	0.01715	4.75	0.01715	4.75
Pu-239	1.000000	0.0	0.6	799.5159	2.3	93.67608	0.07	93.67608	0.07
Pu-240	0.065746	1.2	1.1	52.5648	2.3	6.15880	1.11	6.15880	1.11
Pu-241	0.001251	2.3	2.1	1.0000	0.0	0.11717	2.31	0.11717	2.31
Pu-242	(New alg.)			0.2629	(10)	0.03080	(10)	0.03080	(10)
Am-241	0.004801	0.7	0.5	3.8386	2.1	0.44975	0.70	0.44975	0.70
U-235	0.104105	4.3	4.3			9.75215	4.30	9.75215	4.30

Pu-240 effective (meas. date) = 6.254 +/- 1.23%
U-237 separated more than 10 days ago
Am-241 separated about 32.767 +/- 0.272 years ago
Am/Pu-241 weight ratio = 3.83857 +/- 2.17%

Messages :

Lead x-rays detected.
Calculations in MGAABS didn't converge : results may be suspect.
Pu-241/Pu-239 efficiency changed in MGACAL by 2%.
17 MGA parameter(s) defaulted, starting from parameter 8.

Notes : * = Error in ratio
1.000 sigma errors

Gamma Waste Assay

Sample Information

File Name: C:\WAS\DATA\2700\11102667.S11
Sample ID: LL85234322 Count Sequence Number: 2667
Assay Start: 4-08-08 3:08:14 PM
Description 1:
Description 2:
Location:
Comment:
Waste Type:
Weight: Gross: 59800.0 g Net: 36000.0 g
Density: 0.173 g /ml

Container Type: 55 Gal Galv 23.8
Container: Volume: 208000. ml Full: 100.0 %

System Configuration

Counter ID Number: SGS
Arrangement Description: SGS
Segments: Number: 16 Offset: 0
Scanning Platform: Start: 934 mm Delta: -51 mm
Count Type: 55 Gal Galv 23.8
Collimator/Geometry Setting: 0
Transmission Mode: Two pass
Transmission Source: 0

Errors quoted at 1.000 sigma
Reference Source Date: Reference Source Rate: 1.00E+02 cps
Geometric Correction Factor(SWCONTGCF): 0.760
Date of efficiency calibration approval: 8-27-2003 2:05:34 PM
Mu Factors response file: Lucite response
Transmission Calib. Time: 12-10-2007 3:51:07 PM 28849

Reviewed by: Robert J Hazlett Date: 5-1-08

Segment Results

Segment: 1 Detector: DET01 (# 1) Position: 1

Elapsed Live Time: 107.27 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.201 +/- 0.0127
SE-75	264.65	0.000 +/- 0.0000	0.301 +/- 0.0070
SE-75	279.53	0.000 +/- 0.0000	0.313 +/- 0.0085
SE-75	400.65	0.000 +/- 0.0000	0.367 +/- 0.0115

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.92	6.59E+00 +/- 5.18E-01	2.64E+00	4.30E-10 +/- 3.07E-09
	2	50.17	1.95E+01 +/- 1.61E+00	2.08E+00	8.70E-07 +/- 2.52E-06
	3	60.16	3.53E+02 +/- 4.83E+00	1.97E+00	6.33E-06 +/- 1.17E-05
	4	99.29	6.93E+01 +/- 2.01E+00	1.80E+00	1.51E-04 +/- 4.18E-05
	5	111.71	2.49E+01 +/- 1.33E+00	1.77E+00	2.19E-04 +/- 2.67E-05
M	6	125.94	6.28E+00 +/- 4.56E-01	1.75E+00	2.87E-04 +/- 1.88E-05
m	7	130.00	9.60E+01 +/- 1.95E+00	1.74E+00	3.03E-04 +/- 2.20E-05
	8	144.78	1.35E+00 +/- 9.47E-01	1.71E+00	3.50E-04 +/- 3.79E-05
	9	148.57	3.61E+00 +/- 7.81E-01	1.70E+00	3.59E-04 +/- 4.14E-05
	10	161.78	2.69E+00 +/- 9.15E-01	1.68E+00	3.80E-04 +/- 4.98E-05
	11	172.06	3.85E+00 +/- 8.44E-01	1.66E+00	3.88E-04 +/- 5.26E-05
	12	179.90	2.47E+00 +/- 9.10E-01	1.65E+00	3.91E-04 +/- 5.28E-05
	13	189.97	1.35E+00 +/- 6.12E-01	1.63E+00	3.90E-04 +/- 5.14E-05
	14	196.39	3.89E+00 +/- 8.37E-01	1.62E+00	3.87E-04 +/- 4.97E-05
	15	204.20	1.64E+01 +/- 7.03E-01	1.61E+00	3.83E-04 +/- 4.70E-05
	16	208.67	1.38E+01 +/- 1.25E+00	1.60E+00	3.80E-04 +/- 4.53E-05
	17	256.03	2.04E+00 +/- 6.30E-01	1.53E+00	3.33E-04 +/- 2.59E-05
M	18	264.64	9.09E-01 +/- 2.80E-01	1.52E+00	3.24E-04 +/- 2.31E-05
m	19	268.27	7.40E-01 +/- 2.45E-01	1.52E+00	3.20E-04 +/- 2.19E-05
M	20	298.27	1.45E+00 +/- 3.22E-01	1.49E+00	2.89E-04 +/- 1.55E-05
m	21	300.72	5.12E-01 +/- 1.86E-01	1.49E+00	2.86E-04 +/- 1.52E-05
	22	311.90	4.78E+00 +/- 4.81E-01	1.48E+00	2.76E-04 +/- 1.41E-05
M	23	321.64	2.14E+00 +/- 3.20E-01	1.48E+00	2.67E-04 +/- 1.36E-05
m	24	324.31	2.04E+00 +/- 3.07E-01	1.47E+00	2.65E-04 +/- 1.35E-05
M	25	333.48	2.07E+01 +/- 7.50E-01	1.47E+00	2.57E-04 +/- 1.33E-05
m	26	336.56	6.21E+00 +/- 3.39E-01	1.47E+00	2.54E-04 +/- 1.33E-05
	27	345.68	1.62E+01 +/- 5.48E-01	1.46E+00	2.47E-04 +/- 1.34E-05

	28	368.82	6.31E+00	+/- 5.31E-01	1.45E+00	2.30E-04	+/-	1.38E-05
	29	375.74	3.63E+01	+/- 1.09E+00	1.44E+00	2.25E-04	+/-	1.40E-05
M	30	380.91	8.70E+00	+/- 4.51E-01	1.44E+00	2.22E-04	+/-	1.40E-05
m	31	383.46	7.97E+00	+/- 4.16E-01	1.44E+00	2.20E-04	+/-	1.41E-05
	32	393.58	1.86E+01	+/- 5.78E-01	1.43E+00	2.14E-04	+/-	1.43E-05
	33	413.70	4.93E+01	+/- 9.22E-01	1.42E+00	2.03E-04	+/-	1.44E-05
	34	423.35	3.18E+00	+/- 2.72E-01	1.42E+00	1.98E-04	+/-	1.45E-05
	35	452.20	5.79E+00	+/- 2.95E-01	1.40E+00	1.84E-04	+/-	1.43E-05
	36	512.55	1.76E-01	+/- 8.24E-02	1.38E+00	1.61E-04	+/-	1.31E-05
	37	584.01	1.11E-01	+/- 7.05E-02	1.35E+00	1.42E-04	+/-	1.10E-05
	38	619.70	4.20E-01	+/- 1.04E-01	1.34E+00	1.34E-04	+/-	1.00E-05
	39	640.98	1.81E-01	+/- 9.27E-02	1.33E+00	1.30E-04	+/-	9.41E-06
	40	646.85	1.80E-01	+/- 1.20E-01	1.33E+00	1.29E-04	+/-	9.25E-06
	41	662.42	1.10E+00	+/- 1.30E-01	1.33E+00	1.27E-04	+/-	8.85E-06
	42	722.01	7.41E-01	+/- 9.93E-02	1.31E+00	1.18E-04	+/-	7.51E-06

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	757.37	1.45E-01 +/- 4.31E-02	1.30E+00	1.13E-04 +/- 6.88E-06
44	769.91	2.73E-01 +/- 6.41E-02	1.30E+00	1.12E-04 +/- 6.69E-06
45	1085.91	3.22E-02 +/- 2.62E-02	1.24E+00	8.64E-05 +/- 4.52E-06
46	2236.00	1.00E+02 +/- 1.55E+00	1.17E+00	3.40E-05 +/- 2.15E-05

Segment: 2 Detector: DET01 (# 1) Position: 2

Elapsed Live Time: 106.54 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.130 +/- 0.0110
SE-75	264.65	0.000 +/- 0.0000	0.236 +/- 0.0057
SE-75	279.53	0.000 +/- 0.0000	0.250 +/- 0.0073
SE-75	400.65	0.000 +/- 0.0000	0.296 +/- 0.0099

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.99	7.21E+00 +/- 5.77E-01	3.19E+00	1.87E-05 +/- 1.16E-04
	2	50.04	2.32E+01 +/- 1.77E+00	2.44E+00	8.35E-05 +/- 2.13E-04
	3	60.17	4.31E+02 +/- 5.80E+00	2.29E+00	1.33E-04 +/- 2.14E-04
	4	99.33	7.27E+01 +/- 2.09E+00	2.06E+00	3.09E-04 +/- 7.53E-05
	5	111.70	2.11E+01 +/- 1.36E+00	2.02E+00	3.48E-04 +/- 3.78E-05
	6	116.15	5.99E+00 +/- 1.78E+00	2.01E+00	3.60E-04 +/- 2.87E-05
M	7	125.97	8.39E+00 +/- 4.91E-01	1.99E+00	3.82E-04 +/- 2.26E-05
m	8	130.00	9.96E+01 +/- 2.01E+00	1.98E+00	3.89E-04 +/- 2.52E-05
	9	144.84	2.34E+00 +/- 7.29E-01	1.94E+00	4.11E-04 +/- 3.93E-05
	10	148.57	3.43E+00 +/- 8.32E-01	1.93E+00	4.14E-04 +/- 4.21E-05
	11	161.52	1.37E+00 +/- 7.97E-01	1.89E+00	4.24E-04 +/- 4.89E-05
	12	172.03	5.54E+00 +/- 8.91E-01	1.86E+00	4.29E-04 +/- 5.11E-05
	13	179.75	3.47E+00 +/- 9.54E-01	1.84E+00	4.30E-04 +/- 5.12E-05
	14	190.12	2.41E+00 +/- 7.08E-01	1.81E+00	4.30E-04 +/- 4.99E-05
	15	196.45	3.54E+00 +/- 8.33E-01	1.79E+00	4.29E-04 +/- 4.85E-05
	16	204.21	5.36E+00 +/- 8.92E-01	1.77E+00	4.27E-04 +/- 4.63E-05
	17	208.69	2.05E+01 +/- 1.18E+00	1.76E+00	4.25E-04 +/- 4.49E-05
	18	256.04	3.05E+00 +/- 5.53E-01	1.66E+00	3.99E-04 +/- 2.79E-05
M	19	264.67	1.09E+00 +/- 2.88E-01	1.65E+00	3.93E-04 +/- 2.52E-05
m	20	268.25	1.45E+00 +/- 3.46E-01	1.64E+00	3.90E-04 +/- 2.42E-05
M	21	298.27	2.03E+00 +/- 3.67E-01	1.60E+00	3.68E-04 +/- 1.82E-05

m	22	300.95	7.36E-01	+/- 2.21E-01	1.60E+00	3.66E-04	+/-	1.79E-05
	23	311.90	4.35E+00	+/- 4.70E-01	1.59E+00	3.58E-04	+/-	1.69E-05
M	24	321.38	1.96E+00	+/- 2.98E-01	1.59E+00	3.51E-04	+/-	1.65E-05
m	25	324.40	2.86E+00	+/- 3.67E-01	1.58E+00	3.49E-04	+/-	1.64E-05
M	26	333.46	2.00E+01	+/- 7.70E-01	1.58E+00	3.42E-04	+/-	1.64E-05
m	27	336.54	4.86E+00	+/- 3.29E-01	1.58E+00	3.40E-04	+/-	1.64E-05
	28	345.68	1.93E+01	+/- 6.09E-01	1.57E+00	3.34E-04	+/-	1.66E-05
	29	368.79	7.26E+00	+/- 5.47E-01	1.55E+00	3.18E-04	+/-	1.73E-05
	30	375.75	3.78E+01	+/- 1.15E+00	1.55E+00	3.13E-04	+/-	1.75E-05
M	31	380.91	9.80E+00	+/- 4.86E-01	1.55E+00	3.10E-04	+/-	1.77E-05
m	32	383.50	8.81E+00	+/- 4.38E-01	1.54E+00	3.08E-04	+/-	1.78E-05
	33	393.61	1.99E+01	+/- 6.07E-01	1.54E+00	3.01E-04	+/-	1.81E-05
	34	413.70	5.27E+01	+/- 9.86E-01	1.53E+00	2.89E-04	+/-	1.85E-05
	35	423.34	3.20E+00	+/- 3.07E-01	1.52E+00	2.83E-04	+/-	1.86E-05
	36	452.18	6.19E+00	+/- 3.05E-01	1.50E+00	2.67E-04	+/-	1.85E-05
	37	619.61	4.75E-01	+/- 1.01E-01	1.42E+00	1.98E-04	+/-	1.31E-05
	38	646.79	3.14E-01	+/- 9.32E-02	1.41E+00	1.90E-04	+/-	1.21E-05
	39	662.42	1.44E+00	+/- 1.43E-01	1.41E+00	1.86E-04	+/-	1.15E-05
	40	704.73	8.57E-02	+/- 5.87E-02	1.39E+00	1.75E-04	+/-	1.01E-05
	41	722.01	7.57E-01	+/- 1.04E-01	1.38E+00	1.71E-04	+/-	9.64E-06
	42	757.14	1.57E-01	+/- 4.85E-02	1.37E+00	1.63E-04	+/-	8.75E-06

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	769.60	1.91E-01 +/- 6.00E-02	1.37E+00	1.61E-04 +/- 8.47E-06
44	1112.12	4.74E-02 +/- 2.12E-02	1.30E+00	1.18E-04 +/- 5.17E-06
45	2236.00	1.00E+02 +/- 1.55E+00	1.21E+00	9.73E-05 +/- 5.41E-05

Segment: 3 Detector: DET01 (# 1) Position: 3

Elapsed Live Time: 110.08 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.169 +/- 0.0095
SE-75	264.65	0.000 +/- 0.0000	0.277 +/- 0.0065
SE-75	279.53	0.000 +/- 0.0000	0.286 +/- 0.0077
SE-75	400.65	0.000 +/- 0.0000	0.338 +/- 0.0103

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.99	4.20E+00 +/- 4.40E-01	2.85E+00	3.41E-06 +/- 3.27E-06
	2	50.02	1.56E+01 +/- 1.34E+00	2.22E+00	3.89E-05 +/- 1.89E-05
	3	60.18	2.46E+02 +/- 3.48E+00	2.09E+00	8.08E-05 +/- 2.79E-05
	4	95.28	1.90E+00 +/- 1.17E+00	1.91E+00	2.75E-04 +/- 3.17E-05
	5	99.33	3.41E+01 +/- 1.38E+00	1.90E+00	2.97E-04 +/- 3.03E-05
	6	111.76	6.83E+00 +/- 1.07E+00	1.87E+00	3.55E-04 +/- 2.60E-05
	7	116.25	6.20E+00 +/- 1.20E+00	1.86E+00	3.73E-04 +/- 2.46E-05
M	8	125.95	4.93E+00 +/- 3.70E-01	1.84E+00	4.08E-04 +/- 2.27E-05
m	9	130.03	4.63E+01 +/- 1.23E+00	1.83E+00	4.20E-04 +/- 2.22E-05
	10	144.85	1.14E+00 +/- 7.41E-01	1.80E+00	4.56E-04 +/- 2.23E-05
	11	148.57	1.52E+00 +/- 6.11E-01	1.79E+00	4.63E-04 +/- 2.25E-05
M	12	170.01	6.55E-01 +/- 1.72E-01	1.74E+00	4.89E-04 +/- 2.47E-05
m	13	171.94	9.99E-01 +/- 2.32E-01	1.73E+00	4.90E-04 +/- 2.48E-05
	14	196.28	2.00E+00 +/- 6.17E-01	1.68E+00	4.95E-04 +/- 2.60E-05
	15	208.70	1.36E+01 +/- 7.20E-01	1.66E+00	4.92E-04 +/- 2.59E-05
	16	256.03	1.27E+00 +/- 4.50E-01	1.58E+00	4.58E-04 +/- 2.28E-05
	17	298.26	8.61E-01 +/- 3.02E-01	1.54E+00	4.18E-04 +/- 1.90E-05
	18	311.90	1.42E+00 +/- 3.55E-01	1.53E+00	4.04E-04 +/- 1.79E-05
M	19	321.70	1.06E+00 +/- 2.29E-01	1.52E+00	3.95E-04 +/- 1.71E-05
m	20	324.43	1.30E+00 +/- 2.54E-01	1.52E+00	3.92E-04 +/- 1.69E-05
M	21	333.49	9.71E+00 +/- 5.23E-01	1.51E+00	3.84E-04 +/- 1.63E-05
m	22	336.46	2.86E+00 +/- 2.43E-01	1.51E+00	3.81E-04 +/- 1.61E-05

M	23	342.19	5.31E-01	+/- 1.61E-01	1.50E+00	3.76E-04	+/-	1.58E-05
m	24	345.73	9.91E+00	+/- 5.33E-01	1.50E+00	3.72E-04	+/-	1.56E-05
	25	368.59	3.02E+00	+/- 4.03E-01	1.49E+00	3.52E-04	+/-	1.44E-05
	26	375.77	2.00E+01	+/- 7.47E-01	1.48E+00	3.46E-04	+/-	1.41E-05
M	27	380.96	4.09E+00	+/- 3.07E-01	1.48E+00	3.42E-04	+/-	1.38E-05
m	28	383.51	4.23E+00	+/- 3.05E-01	1.48E+00	3.40E-04	+/-	1.37E-05
	29	393.61	9.05E+00	+/- 3.72E-01	1.47E+00	3.31E-04	+/-	1.34E-05
	30	413.70	2.67E+01	+/- 6.14E-01	1.46E+00	3.16E-04	+/-	1.28E-05
	31	423.40	1.81E+00	+/- 1.84E-01	1.46E+00	3.09E-04	+/-	1.26E-05
	32	452.17	3.10E+00	+/- 2.05E-01	1.44E+00	2.89E-04	+/-	1.20E-05
	33	511.93	2.69E-01	+/- 8.85E-02	1.41E+00	2.55E-04	+/-	1.13E-05
	34	619.95	8.98E-02	+/- 6.17E-02	1.37E+00	2.08E-04	+/-	1.01E-05
	35	646.75	1.19E-01	+/- 7.98E-02	1.36E+00	2.00E-04	+/-	9.81E-06
	36	662.42	7.61E-01	+/- 1.13E-01	1.36E+00	1.95E-04	+/-	9.62E-06
	37	722.01	3.10E-01	+/- 7.97E-02	1.34E+00	1.79E-04	+/-	8.87E-06
	38	756.95	9.16E-02	+/- 3.82E-02	1.33E+00	1.71E-04	+/-	8.41E-06
	39	769.91	1.50E-01	+/- 6.73E-02	1.33E+00	1.68E-04	+/-	8.23E-06
	40	1001.03	4.01E-02	+/- 2.64E-02	1.28E+00	1.35E-04	+/-	5.37E-06
	41	1112.12	2.47E-02	+/- 2.33E-02	1.26E+00	1.27E-04	+/-	4.65E-06
	42	1408.01	4.50E-02	+/- 2.01E-02	1.23E+00	1.15E-04	+/-	7.14E-06

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	2236.00	1.00E+02 +/- 1.52E+00	1.19E+00	1.32E-04 +/- 3.24E-05

Segment: 4 Detector: DET01 (# 1) Position: 4

Elapsed Live Time: 113.08 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.171 +/- 0.0092
SE-75	264.65	0.000 +/- 0.0000	0.273 +/- 0.0063
SE-75	279.53	0.000 +/- 0.0000	0.285 +/- 0.0074
SE-75	400.65	0.000 +/- 0.0000	0.313 +/- 0.0095

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.10	1.51E+00 +/- 2.54E-01	2.83E+00	1.21E-07 +/- 7.36E-07
	2	49.55	2.78E+00 +/- 6.32E-01	2.22E+00	9.79E-06 +/- 2.51E-05
	3	60.19	5.72E+01 +/- 1.19E+00	2.08E+00	3.63E-05 +/- 5.77E-05
	4	104.08	4.58E+00 +/- 5.70E-01	1.88E+00	2.92E-04 +/- 5.28E-05
	5	111.68	1.51E+00 +/- 6.18E-01	1.86E+00	3.35E-04 +/- 3.62E-05
	6	115.41	9.15E-01 +/- 5.76E-01	1.86E+00	3.54E-04 +/- 2.96E-05
M	7	126.10	1.04E+00 +/- 2.07E-01	1.84E+00	4.00E-04 +/- 2.38E-05
m	8	130.05	1.07E+01 +/- 5.91E-01	1.83E+00	4.14E-04 +/- 2.69E-05
	9	185.71	2.77E+00 +/- 4.12E-01	1.71E+00	4.90E-04 +/- 5.73E-05
	10	208.72	1.50E+00 +/- 3.37E-01	1.66E+00	4.80E-04 +/- 5.04E-05
	11	239.44	4.94E-01 +/- 2.79E-01	1.61E+00	4.53E-04 +/- 3.72E-05
	12	300.10	4.81E-01 +/- 2.83E-01	1.54E+00	3.89E-04 +/- 1.89E-05
M	13	333.55	1.80E+00 +/- 2.34E-01	1.53E+00	3.57E-04 +/- 1.65E-05
m	14	336.36	5.53E-01 +/- 1.18E-01	1.53E+00	3.54E-04 +/- 1.65E-05
	15	345.69	1.33E+00 +/- 1.86E-01	1.52E+00	3.46E-04 +/- 1.65E-05
	16	368.75	5.09E-01 +/- 1.76E-01	1.52E+00	3.26E-04 +/- 1.69E-05
	17	375.80	3.34E+00 +/- 3.20E-01	1.51E+00	3.21E-04 +/- 1.71E-05
M	18	380.99	1.08E+00 +/- 1.44E-01	1.51E+00	3.17E-04 +/- 1.72E-05
m	19	383.47	9.65E-01 +/- 1.34E-01	1.51E+00	3.15E-04 +/- 1.73E-05
	20	393.72	1.68E+00 +/- 1.72E-01	1.51E+00	3.07E-04 +/- 1.75E-05
	21	413.70	4.97E+00 +/- 2.40E-01	1.50E+00	2.94E-04 +/- 1.78E-05
	22	423.50	2.84E-01 +/- 9.46E-02	1.49E+00	2.87E-04 +/- 1.79E-05
	23	452.29	7.46E-01 +/- 1.01E-01	1.48E+00	2.70E-04 +/- 1.78E-05
	24	511.17	3.32E-01 +/- 7.43E-02	1.45E+00	2.41E-04 +/- 1.65E-05

25	583.89	1.76E-01	+/- 6.28E-02	1.41E+00	2.13E-04	+/- 1.40E-05
26	662.42	1.61E-01	+/- 6.33E-02	1.38E+00	1.90E-04	+/- 1.13E-05
27	722.01	6.78E-02	+/- 4.11E-02	1.36E+00	1.77E-04	+/- 9.59E-06
28	867.39	1.75E-02	+/- 1.24E-02	1.33E+00	1.52E-04	+/- 7.25E-06
29	964.13	2.63E-02	+/- 1.52E-02	1.31E+00	1.40E-04	+/- 6.55E-06
30	1001.03	2.58E-02	+/- 2.04E-02	1.30E+00	1.37E-04	+/- 6.33E-06
31	1085.91	8.77E-03	+/- 8.77E-03	1.28E+00	1.29E-04	+/- 5.82E-06
32	2236.00	1.00E+02	+/- 1.50E+00	1.20E+00	7.00E-05	+/- 3.84E-05
33	2617.49	1.14E-01	+/- 3.17E-02	1.19E+00	5.74E-05	+/- 5.20E-05

Segment: 5 Detector: DET01 (# 1) Position: 5

Elapsed Live Time: 113.70 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.150 +/- 0.0089
SE-75	264.65	0.000 +/- 0.0000	0.237 +/- 0.0055
SE-75	279.53	0.000 +/- 0.0000	0.243 +/- 0.0065
SE-75	400.65	0.000 +/- 0.0000	0.300 +/- 0.0091

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.72	7.33E-01 +/- 1.74E-01	3.03E+00	2.46E-07 +/- 1.65E-06
2	49.28	3.73E+00 +/- 5.33E-01	2.33E+00	1.43E-05 +/- 4.02E-05
3	60.19	1.89E+01 +/- 6.67E-01	2.18E+00	4.80E-05 +/- 8.24E-05
4	99.38	1.51E+00 +/- 4.70E-01	1.97E+00	2.78E-04 +/- 7.10E-05
5	129.29	2.18E+00 +/- 3.42E-01	1.90E+00	4.07E-04 +/- 2.65E-05
6	144.46	8.79E-01 +/- 3.32E-01	1.87E+00	4.42E-04 +/- 4.44E-05
7	185.71	4.53E+00 +/- 3.69E-01	1.78E+00	4.66E-04 +/- 5.86E-05
8	239.43	7.94E-01 +/- 2.20E-01	1.68E+00	4.30E-04 +/- 3.74E-05
9	300.10	3.13E-01 +/- 2.05E-01	1.61E+00	3.72E-04 +/- 1.87E-05
10	311.90	6.27E-01 +/- 2.04E-01	1.60E+00	3.62E-04 +/- 1.74E-05
11	333.36	2.77E-01 +/- 1.49E-01	1.58E+00	3.43E-04 +/- 1.67E-05
12	345.78	1.95E-01 +/- 1.29E-01	1.57E+00	3.33E-04 +/- 1.69E-05
13	375.84	4.40E-01 +/- 1.69E-01	1.54E+00	3.11E-04 +/- 1.79E-05
14	394.07	2.32E-01 +/- 7.87E-02	1.53E+00	2.99E-04 +/- 1.85E-05
15	413.70	7.38E-01 +/- 1.02E-01	1.52E+00	2.86E-04 +/- 1.90E-05
16	443.98	1.01E-01 +/- 7.03E-02	1.50E+00	2.69E-04 +/- 1.92E-05
17	511.79	1.43E-01 +/- 5.05E-02	1.46E+00	2.37E-04 +/- 1.79E-05
18	583.84	3.39E-01 +/- 6.47E-02	1.43E+00	2.12E-04 +/- 1.52E-05
19	662.42	4.47E-02 +/- 3.51E-02	1.40E+00	1.90E-04 +/- 1.21E-05
20	964.13	4.09E-02 +/- 2.45E-02	1.32E+00	1.39E-04 +/- 6.40E-06
21	1408.01	2.61E-02 +/- 1.50E-02	1.25E+00	1.00E-04 +/- 6.78E-06

22	2236.00	1.00E+02	+/- 1.50E+00	1.21E+00	5.76E-05	+/- 3.29E-05
23	2617.50	1.06E-01	+/- 3.77E-02	1.20E+00	4.40E-05	+/- 4.18E-05

Segment: 6 Detector: DET01 (# 1) Position: 6

Elapsed Live Time: 113.87 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.147 +/- 0.0076
SE-75	264.65	0.000 +/- 0.0000	0.254 +/- 0.0058
SE-75	279.53	0.000 +/- 0.0000	0.259 +/- 0.0068
SE-75	400.65	0.000 +/- 0.0000	0.310 +/- 0.0093

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	31.77	8.41E-01 +/- 1.58E-01	3.05E+00	4.27E-07 +/- 2.72E-06
2	49.23	3.57E+00 +/- 4.66E-01	2.35E+00	1.95E-05 +/- 5.24E-05
3	60.19	1.42E+01 +/- 5.69E-01	2.20E+00	6.09E-05 +/- 9.94E-05
4	99.22	6.75E-01 +/- 4.38E-01	1.98E+00	3.05E-04 +/- 7.54E-05
5	129.29	8.66E-01 +/- 3.08E-01	1.91E+00	4.31E-04 +/- 2.73E-05
6	144.59	4.59E-01 +/- 2.00E-01	1.87E+00	4.63E-04 +/- 4.47E-05
7	185.71	4.76E+00 +/- 3.87E-01	1.77E+00	4.84E-04 +/- 5.81E-05
8	239.37	1.55E+00 +/- 2.53E-01	1.66E+00	4.48E-04 +/- 3.76E-05
9	300.10	3.28E-01 +/- 1.80E-01	1.58E+00	3.93E-04 +/- 1.94E-05
10	311.90	4.73E-01 +/- 1.40E-01	1.57E+00	3.82E-04 +/- 1.81E-05
11	413.70	2.80E-01 +/- 8.56E-02	1.50E+00	3.09E-04 +/- 1.95E-05
12	443.98	8.84E-02 +/- 6.09E-02	1.48E+00	2.92E-04 +/- 1.97E-05
13	512.09	3.34E-01 +/- 6.82E-02	1.45E+00	2.60E-04 +/- 1.85E-05
14	583.92	4.72E-01 +/- 7.96E-02	1.42E+00	2.34E-04 +/- 1.58E-05
15	2236.00	1.00E+02 +/- 1.50E+00	1.20E+00	4.34E-05 +/- 2.42E-05

Segment: 7 Detector: DET01 (# 1) Position: 7

Elapsed Live Time: 113.88 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.205 +/- 0.0105
SE-75	264.65	0.000 +/- 0.0000	0.304 +/- 0.0069
SE-75	279.53	0.000 +/- 0.0000	0.326 +/- 0.0082
SE-75	400.65	0.000 +/- 0.0000	0.361 +/- 0.0104

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.26	5.48E-01 +/- 1.45E-01	2.59E+00	5.59E-09 +/- 3.17E-08
	2	49.34	3.50E+00 +/- 5.26E-01	2.07E+00	2.47E-06 +/- 6.00E-06
	3	60.20	2.44E+01 +/- 7.10E-01	1.95E+00	1.61E-05 +/- 2.40E-05
	4	99.45	8.77E-01 +/- 3.78E-01	1.79E+00	2.44E-04 +/- 5.51E-05
M	5	125.89	5.20E-01 +/- 1.53E-01	1.74E+00	4.24E-04 +/- 2.46E-05
m	6	130.16	1.17E+00 +/- 2.43E-01	1.73E+00	4.46E-04 +/- 2.79E-05
	7	144.43	9.75E-01 +/- 3.20E-01	1.70E+00	5.03E-04 +/- 4.44E-05
	8	185.71	3.49E+00 +/- 3.21E-01	1.63E+00	5.59E-04 +/- 6.06E-05
	9	239.44	1.58E+00 +/- 2.11E-01	1.55E+00	5.12E-04 +/- 3.89E-05
	10	300.10	2.60E-01 +/- 1.35E-01	1.48E+00	4.31E-04 +/- 1.99E-05
	11	311.90	6.12E-01 +/- 1.50E-01	1.47E+00	4.17E-04 +/- 1.86E-05
	12	375.67	3.49E-01 +/- 1.09E-01	1.45E+00	3.49E-04 +/- 1.82E-05
	13	393.84	1.37E-01 +/- 7.14E-02	1.44E+00	3.33E-04 +/- 1.86E-05
	14	413.70	2.51E-01 +/- 6.98E-02	1.43E+00	3.17E-04 +/- 1.88E-05
	15	511.58	4.71E-01 +/- 8.17E-02	1.39E+00	2.57E-04 +/- 1.71E-05
	16	584.03	4.79E-01 +/- 8.15E-02	1.36E+00	2.27E-04 +/- 1.45E-05
	17	662.42	5.20E-02 +/- 3.19E-02	1.33E+00	2.03E-04 +/- 1.17E-05
	18	722.01	8.94E-02 +/- 4.51E-02	1.32E+00	1.89E-04 +/- 9.99E-06
	19	728.34	6.75E-02 +/- 3.96E-02	1.31E+00	1.87E-04 +/- 9.83E-06
	20	1001.03	5.45E-02 +/- 2.95E-02	1.26E+00	1.45E-04 +/- 6.33E-06
	21	1408.01	1.41E-02 +/- 1.93E-02	1.21E+00	1.05E-04 +/- 7.16E-06
	22	2236.00	1.00E+02 +/- 1.50E+00	1.17E+00	5.07E-05 +/- 2.69E-05
	23	2617.20	1.73E-01 +/- 3.88E-02	1.17E+00	3.37E-05 +/- 2.94E-05

Segment: 8 Detector: DET01 (# 1) Position: 8

Elapsed Live Time: 113.73 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.198 +/- 0.0102
SE-75	264.65	0.000 +/- 0.0000	0.296 +/- 0.0067
SE-75	279.53	0.000 +/- 0.0000	0.305 +/- 0.0078
SE-75	400.65	0.000 +/- 0.0000	0.352 +/- 0.0102

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.20	4.76E-01 +/- 1.35E-01	2.63E+00	7.85E-06 +/- 7.59E-06
	2	49.73	3.29E+00 +/- 5.67E-01	2.09E+00	5.81E-05 +/- 2.89E-05
	3	60.19	5.71E+01 +/- 1.14E+00	1.98E+00	1.10E-04 +/- 3.84E-05
	4	99.52	2.27E+00 +/- 4.66E-01	1.80E+00	3.25E-04 +/- 3.30E-05
	5	111.71	8.40E-01 +/- 3.78E-01	1.78E+00	3.75E-04 +/- 2.72E-05
M	6	126.12	1.09E+00 +/- 1.72E-01	1.75E+00	4.20E-04 +/- 2.31E-05
m	7	130.04	3.47E+00 +/- 3.47E-01	1.75E+00	4.29E-04 +/- 2.26E-05
	8	185.71	3.39E+00 +/- 3.09E-01	1.64E+00	4.81E-04 +/- 2.59E-05
	9	208.74	1.20E+00 +/- 2.46E-01	1.61E+00	4.74E-04 +/- 2.60E-05
	10	239.19	6.73E-01 +/- 2.28E-01	1.57E+00	4.54E-04 +/- 2.43E-05
	11	244.70	3.95E-01 +/- 1.76E-01	1.56E+00	4.49E-04 +/- 2.38E-05
	12	300.10	3.43E-01 +/- 1.57E-01	1.50E+00	3.99E-04 +/- 1.88E-05
	13	311.90	9.17E-01 +/- 1.49E-01	1.50E+00	3.88E-04 +/- 1.78E-05
M	14	333.43	3.73E-01 +/- 1.30E-01	1.48E+00	3.69E-04 +/- 1.62E-05
m	15	336.43	1.72E-01 +/- 7.32E-02	1.48E+00	3.66E-04 +/- 1.60E-05
	16	345.98	2.16E-01 +/- 9.87E-02	1.48E+00	3.58E-04 +/- 1.54E-05
	17	375.66	7.46E-01 +/- 1.13E-01	1.46E+00	3.34E-04 +/- 1.38E-05
	18	393.84	1.84E-01 +/- 6.51E-02	1.45E+00	3.20E-04 +/- 1.31E-05
	19	413.70	5.54E-01 +/- 9.51E-02	1.44E+00	3.06E-04 +/- 1.25E-05
	20	511.83	2.96E-01 +/- 6.65E-02	1.40E+00	2.49E-04 +/- 1.09E-05
	21	583.97	2.79E-01 +/- 6.64E-02	1.37E+00	2.19E-04 +/- 1.02E-05
	22	778.90	5.65E-02 +/- 3.07E-02	1.31E+00	1.66E-04 +/- 8.00E-06
	23	2236.00	1.00E+02 +/- 1.50E+00	1.18E+00	1.19E-04 +/- 2.92E-05

Segment: 9 Detector: DET01 (# 1) Position: 9

Elapsed Live Time: 113.33 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.131 +/- 0.0085
SE-75	264.65	0.000 +/- 0.0000	0.238 +/- 0.0055
SE-75	279.53	0.000 +/- 0.0000	0.243 +/- 0.0065
SE-75	400.65	0.000 +/- 0.0000	0.301 +/- 0.0092

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.02	8.74E-01 +/- 1.77E-01	3.18E+00	6.11E-09 +/- 3.68E-08
	2	49.99	5.97E+00 +/- 7.54E-01	2.43E+00	3.05E-06 +/- 7.54E-06
	3	60.19	1.22E+02 +/- 1.92E+00	2.28E+00	1.66E-05 +/- 2.59E-05
	4	99.40	6.85E+00 +/- 5.91E-01	2.05E+00	2.36E-04 +/- 5.57E-05
	5	111.86	1.23E+00 +/- 4.52E-01	2.02E+00	3.23E-04 +/- 3.44E-05
M	6	123.55	5.45E-01 +/- 1.68E-01	1.99E+00	3.92E-04 +/- 2.33E-05
m	7	125.99	1.90E+00 +/- 2.12E-01	1.98E+00	4.05E-04 +/- 2.41E-05
m	8	130.02	8.77E+00 +/- 5.02E-01	1.97E+00	4.24E-04 +/- 2.73E-05
	9	144.74	6.86E-01 +/- 3.38E-01	1.93E+00	4.78E-04 +/- 4.42E-05
	10	185.71	2.48E+00 +/- 2.88E-01	1.81E+00	5.24E-04 +/- 5.91E-05
	11	208.69	1.87E+00 +/- 3.01E-01	1.76E+00	5.11E-04 +/- 5.15E-05
	12	239.54	3.98E-01 +/- 1.83E-01	1.69E+00	4.75E-04 +/- 3.72E-05
	13	311.90	1.75E+00 +/- 1.89E-01	1.60E+00	3.83E-04 +/- 1.78E-05
M	14	333.51	8.67E-01 +/- 1.54E-01	1.58E+00	3.59E-04 +/- 1.71E-05
m	15	336.47	3.30E-01 +/- 8.56E-02	1.58E+00	3.56E-04 +/- 1.71E-05
	16	345.68	5.10E-01 +/- 1.58E-01	1.57E+00	3.46E-04 +/- 1.72E-05
	17	368.89	2.12E-01 +/- 1.41E-01	1.55E+00	3.24E-04 +/- 1.77E-05
	18	375.86	1.86E+00 +/- 1.72E-01	1.54E+00	3.18E-04 +/- 1.78E-05
	19	393.67	5.36E-01 +/- 9.69E-02	1.53E+00	3.03E-04 +/- 1.81E-05
	20	413.70	1.93E+00 +/- 1.55E-01	1.52E+00	2.88E-04 +/- 1.83E-05
	21	452.33	2.84E-01 +/- 7.49E-02	1.49E+00	2.63E-04 +/- 1.81E-05
	22	511.77	2.10E-01 +/- 5.87E-02	1.46E+00	2.33E-04 +/- 1.66E-05
	23	583.91	1.51E-01 +/- 5.32E-02	1.43E+00	2.06E-04 +/- 1.39E-05
	24	662.42	1.65E-01 +/- 5.09E-02	1.40E+00	1.84E-04 +/- 1.12E-05
	25	1085.91	8.71E-03 +/- 1.96E-02	1.29E+00	1.27E-04 +/- 5.58E-06
	26	1408.01	5.23E-02 +/- 2.13E-02	1.25E+00	1.05E-04 +/- 6.90E-06
	27	2236.00	1.00E+02 +/- 1.50E+00	1.21E+00	6.12E-05 +/- 3.31E-05

Segment: 10 Detector: DET01 (# 1) Position: 10

Elapsed Live Time: 112.68 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.156 +/- 0.0095
SE-75	264.65	0.000 +/- 0.0000	0.263 +/- 0.0061
SE-75	279.53	0.000 +/- 0.0000	0.271 +/- 0.0071
SE-75	400.65	0.000 +/- 0.0000	0.335 +/- 0.0100

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.79	1.63E+00 +/- 2.29E-01	2.97E+00	1.61E-05 +/- 1.61E-05
	2	50.15	8.37E+00 +/- 1.03E+00	2.28E+00	8.46E-05 +/- 4.23E-05
	3	60.18	1.91E+02 +/- 2.74E+00	2.15E+00	1.37E-04 +/- 4.88E-05
	4	99.40	1.34E+01 +/- 8.32E-01	1.95E+00	3.30E-04 +/- 3.40E-05
	5	111.70	1.67E+00 +/- 6.30E-01	1.92E+00	3.72E-04 +/- 2.73E-05
M	6	125.99	3.42E+00 +/- 2.81E-01	1.89E+00	4.08E-04 +/- 2.27E-05
m	7	130.04	1.87E+01 +/- 7.18E-01	1.88E+00	4.16E-04 +/- 2.21E-05
	8	161.35	9.23E-01 +/- 3.75E-01	1.80E+00	4.54E-04 +/- 2.33E-05
	9	185.71	7.77E-01 +/- 3.40E-01	1.74E+00	4.61E-04 +/- 2.50E-05
	10	208.71	4.35E+00 +/- 4.00E-01	1.69E+00	4.56E-04 +/- 2.51E-05
	11	256.45	6.13E-01 +/- 2.48E-01	1.61E+00	4.29E-04 +/- 2.22E-05
	12	300.10	9.45E-01 +/- 2.56E-01	1.56E+00	3.96E-04 +/- 1.86E-05
	13	311.90	4.53E+00 +/- 3.16E-01	1.55E+00	3.87E-04 +/- 1.76E-05
M	14	333.54	2.15E+00 +/- 2.37E-01	1.53E+00	3.71E-04 +/- 1.62E-05
m	15	336.31	7.94E-01 +/- 1.28E-01	1.52E+00	3.68E-04 +/- 1.60E-05
	16	345.75	1.08E+00 +/- 2.02E-01	1.52E+00	3.61E-04 +/- 1.54E-05
	17	369.31	4.80E-01 +/- 2.03E-01	1.50E+00	3.45E-04 +/- 1.43E-05
	18	375.76	3.23E+00 +/- 3.11E-01	1.49E+00	3.40E-04 +/- 1.40E-05
M	19	380.83	7.25E-01 +/- 1.31E-01	1.49E+00	3.37E-04 +/- 1.38E-05
m	20	383.57	6.84E-01 +/- 1.22E-01	1.48E+00	3.35E-04 +/- 1.37E-05
	21	393.76	1.50E+00 +/- 1.75E-01	1.48E+00	3.28E-04 +/- 1.34E-05
	22	400.66	2.63E-01 +/- 1.09E-01	1.47E+00	3.24E-04 +/- 1.32E-05
	23	413.70	4.73E+00 +/- 2.43E-01	1.46E+00	3.15E-04 +/- 1.29E-05
	24	423.28	3.28E-01 +/- 8.86E-02	1.46E+00	3.09E-04 +/- 1.27E-05
	25	452.40	5.90E-01 +/- 1.11E-01	1.44E+00	2.92E-04 +/- 1.22E-05
	26	511.44	2.03E-01 +/- 7.76E-02	1.42E+00	2.62E-04 +/- 1.16E-05
	27	619.36	8.02E-02 +/- 4.21E-02	1.37E+00	2.19E-04 +/- 1.08E-05
	28	662.42	1.50E-01 +/- 6.32E-02	1.36E+00	2.06E-04 +/- 1.03E-05
	29	722.01	1.31E-01 +/- 5.14E-02	1.34E+00	1.89E-04 +/- 9.55E-06
	30	1112.12	4.54E-02 +/- 2.85E-02	1.26E+00	1.29E-04 +/- 4.78E-06
	31	1408.01	2.63E-02 +/- 1.52E-02	1.23E+00	1.09E-04 +/- 6.83E-06
	32	2236.00	1.00E+02 +/- 1.50E+00	1.19E+00	9.04E-05 +/- 2.29E-05

Segment: 11 Detector: DET01 (# 1) Position: 11

Elapsed Live Time: 111.11 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.094 +/- 0.0084
SE-75	264.65	0.000 +/- 0.0000	0.207 +/- 0.0050
SE-75	279.53	0.000 +/- 0.0000	0.219 +/- 0.0061
SE-75	400.65	0.000 +/- 0.0000	0.268 +/- 0.0087

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.10	2.69E+00 +/- 3.40E-01	3.62E+00	1.32E-03 +/- 8.53E-03
	2	50.41	1.10E+01 +/- 1.10E+00	2.72E+00	5.95E-04 +/- 1.55E-03
	3	60.18	4.10E+02 +/- 5.36E+00	2.54E+00	5.03E-04 +/- 8.46E-04
	4	99.42	3.33E+01 +/- 1.27E+00	2.26E+00	4.09E-04 +/- 1.03E-04
	5	111.70	2.32E+00 +/- 8.52E-01	2.22E+00	4.03E-04 +/- 4.47E-05
	6	115.68	5.44E+00 +/- 8.26E-01	2.21E+00	4.02E-04 +/- 3.33E-05
M	7	123.62	2.09E+00 +/- 2.69E-01	2.19E+00	4.00E-04 +/- 2.34E-05
m	8	126.01	1.10E+01 +/- 4.45E-01	2.18E+00	4.00E-04 +/- 2.38E-05
m	9	130.02	4.18E+01 +/- 1.09E+00	2.17E+00	3.99E-04 +/- 2.64E-05
	10	148.57	2.92E+00 +/- 4.96E-01	2.09E+00	3.97E-04 +/- 4.23E-05
	11	172.16	2.01E+00 +/- 4.66E-01	1.99E+00	3.95E-04 +/- 4.96E-05
	12	196.56	1.06E+00 +/- 3.86E-01	1.91E+00	3.91E-04 +/- 4.67E-05
	13	204.22	4.45E+00 +/- 3.89E-01	1.88E+00	3.89E-04 +/- 4.47E-05
	14	208.70	6.23E+00 +/- 6.70E-01	1.87E+00	3.88E-04 +/- 4.34E-05
	15	300.10	2.80E+00 +/- 3.45E-01	1.67E+00	3.57E-04 +/- 1.80E-05
	16	311.90	1.16E+01 +/- 4.06E-01	1.66E+00	3.53E-04 +/- 1.69E-05
	17	324.45	1.02E+00 +/- 2.93E-01	1.64E+00	3.47E-04 +/- 1.63E-05
M	18	333.41	4.75E+00 +/- 3.57E-01	1.64E+00	3.43E-04 +/- 1.63E-05
m	19	336.35	1.68E+00 +/- 1.90E-01	1.63E+00	3.42E-04 +/- 1.63E-05
	20	345.70	3.27E+00 +/- 2.83E-01	1.63E+00	3.38E-04 +/- 1.66E-05
	21	368.93	7.73E-01 +/- 2.97E-01	1.61E+00	3.28E-04 +/- 1.76E-05
	22	375.79	8.12E+00 +/- 4.60E-01	1.60E+00	3.25E-04 +/- 1.79E-05
M	23	381.03	1.66E+00 +/- 1.92E-01	1.60E+00	3.23E-04 +/- 1.81E-05
m	24	383.58	1.56E+00 +/- 1.78E-01	1.59E+00	3.21E-04 +/- 1.83E-05
	25	393.70	3.47E+00 +/- 2.61E-01	1.59E+00	3.17E-04 +/- 1.87E-05
	26	399.12	4.26E-01 +/- 1.62E-01	1.58E+00	3.15E-04 +/- 1.89E-05
	27	413.70	1.09E+01 +/- 3.56E-01	1.57E+00	3.08E-04 +/- 1.94E-05
	28	423.48	2.84E-01 +/- 1.46E-01	1.57E+00	3.04E-04 +/- 1.97E-05
	29	452.25	1.32E+00 +/- 1.33E-01	1.55E+00	2.92E-04 +/- 2.00E-05
	30	619.85	8.43E-02 +/- 5.44E-02	1.46E+00	2.28E-04 +/- 1.48E-05
	31	662.42	4.69E-01 +/- 9.43E-02	1.44E+00	2.15E-04 +/- 1.30E-05
	32	722.01	2.00E-01 +/- 5.65E-02	1.42E+00	1.97E-04 +/- 1.08E-05
	33	2236.00	1.00E+02 +/- 1.52E+00	1.23E+00	5.79E-05 +/- 3.30E-05

Segment: 12 Detector: DET01 (# 1) Position: 12

Elapsed Live Time: 109.32 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.172 +/- 0.0116
SE-75	264.65	0.000 +/- 0.0000	0.334 +/- 0.0076
SE-75	279.53	0.000 +/- 0.0000	0.338 +/- 0.0087
SE-75	400.65	0.000 +/- 0.0000	0.402 +/- 0.0118

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.22	3.12E+00 +/- 4.10E-01	2.81E+00	2.66E-09 +/- 1.62E-08
	2	50.27	3.05E+01 +/- 1.77E+00	2.20E+00	2.20E-06 +/- 5.49E-06
	3	60.18	7.53E+02 +/- 9.47E+00	2.08E+00	1.30E-05 +/- 2.08E-05
	4	99.44	5.36E+01 +/- 1.63E+00	1.89E+00	2.33E-04 +/- 5.59E-05
	5	111.69	5.27E+00 +/- 1.02E+00	1.86E+00	3.26E-04 +/- 3.52E-05
	6	115.52	6.98E+00 +/- 1.00E+00	1.85E+00	3.52E-04 +/- 2.91E-05
M	7	123.81	4.26E+00 +/- 3.36E-01	1.84E+00	4.04E-04 +/- 2.36E-05
m	8	125.97	1.84E+01 +/- 5.79E-01	1.83E+00	4.16E-04 +/- 2.45E-05
m	9	129.99	6.07E+01 +/- 1.35E+00	1.83E+00	4.38E-04 +/- 2.82E-05
M	10	144.77	3.46E+00 +/- 3.31E-01	1.78E+00	4.97E-04 +/- 4.70E-05
m	11	147.10	3.87E+00 +/- 3.56E-01	1.77E+00	5.04E-04 +/- 4.96E-05
m	12	149.35	4.11E+00 +/- 3.70E-01	1.76E+00	5.11E-04 +/- 5.20E-05
	13	172.22	2.19E+00 +/- 5.97E-01	1.69E+00	5.45E-04 +/- 6.42E-05
	14	179.79	1.34E+00 +/- 5.65E-01	1.67E+00	5.47E-04 +/- 6.44E-05
	15	196.39	7.23E-01 +/- 4.94E-01	1.62E+00	5.42E-04 +/- 6.05E-05
	16	208.70	1.36E+01 +/- 7.42E-01	1.59E+00	5.31E-04 +/- 5.52E-05
	17	256.21	9.35E-01 +/- 2.87E-01	1.49E+00	4.66E-04 +/- 3.20E-05
M	18	264.73	5.71E-01 +/- 1.90E-01	1.47E+00	4.54E-04 +/- 2.86E-05
m	19	268.30	5.55E-01 +/- 1.89E-01	1.47E+00	4.48E-04 +/- 2.73E-05
	20	300.10	3.26E+00 +/- 3.76E-01	1.45E+00	4.04E-04 +/- 1.94E-05
	21	311.90	1.47E+01 +/- 4.71E-01	1.44E+00	3.88E-04 +/- 1.81E-05
	22	323.41	1.55E+00 +/- 3.37E-01	1.44E+00	3.74E-04 +/- 1.74E-05
M	23	333.45	6.83E+00 +/- 3.91E-01	1.43E+00	3.62E-04 +/- 1.72E-05
m	24	336.35	4.09E+00 +/- 2.79E-01	1.43E+00	3.59E-04 +/- 1.72E-05
	25	345.70	4.60E+00 +/- 3.32E-01	1.42E+00	3.49E-04 +/- 1.72E-05
	26	369.11	1.90E+00 +/- 2.77E-01	1.40E+00	3.25E-04 +/- 1.77E-05
	27	375.78	1.13E+01 +/- 5.47E-01	1.40E+00	3.19E-04 +/- 1.78E-05
M	28	380.94	2.39E+00 +/- 2.47E-01	1.40E+00	3.14E-04 +/- 1.80E-05
m	29	383.55	2.31E+00 +/- 2.30E-01	1.40E+00	3.12E-04 +/- 1.80E-05
	30	393.67	5.05E+00 +/- 3.16E-01	1.39E+00	3.03E-04 +/- 1.82E-05
	31	400.66	3.04E-01 +/- 1.46E-01	1.39E+00	2.98E-04 +/- 1.83E-05
	32	413.70	1.49E+01 +/- 4.45E-01	1.38E+00	2.87E-04 +/- 1.84E-05

M	33	423.39	7.50E-01	+/- 1.45E-01	1.38E+00	2.80E-04	+/-	1.84E-05
m	34	427.19	3.24E-01	+/- 8.32E-02	1.37E+00	2.78E-04	+/-	1.84E-05
	35	452.24	1.75E+00	+/- 1.66E-01	1.36E+00	2.61E-04	+/-	1.82E-05
	36	511.23	3.54E-01	+/- 9.14E-02	1.34E+00	2.31E-04	+/-	1.67E-05
	37	619.89	1.27E-01	+/- 5.55E-02	1.31E+00	1.92E-04	+/-	1.28E-05
	38	662.42	1.00E+00	+/- 1.08E-01	1.29E+00	1.82E-04	+/-	1.13E-05
	39	689.64	7.62E-02	+/- 4.50E-02	1.29E+00	1.76E-04	+/-	1.05E-05
	40	722.01	6.14E-01	+/- 8.97E-02	1.28E+00	1.70E-04	+/-	9.57E-06
	41	964.13	4.09E-02	+/- 2.90E-02	1.24E+00	1.38E-04	+/-	6.29E-06
	42	1112.12	2.73E-02	+/- 1.58E-02	1.22E+00	1.27E-04	+/-	5.46E-06

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	1275.54	1.41E-01 +/- 3.99E-02	1.20E+00	1.16E-04 +/- 5.28E-06
44	2236.00	1.00E+02 +/- 1.53E+00	1.15E+00	6.48E-05 +/- 3.54E-05

Segment: 13 Detector: DET01 (# 1) Position: 13

Elapsed Live Time: 110.62 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.130 +/- 0.0095
SE-75	264.65	0.000 +/- 0.0000	0.247 +/- 0.0058
SE-75	279.53	0.000 +/- 0.0000	0.246 +/- 0.0067
SE-75	400.65	0.000 +/- 0.0000	0.298 +/- 0.0093

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.16	2.58E+00 +/- 3.53E-01	3.18E+00	1.84E-08 +/- 1.19E-07
	2	50.10	1.72E+01 +/- 1.41E+00	2.44E+00	5.05E-06 +/- 1.35E-05
	3	60.18	5.77E+02 +/- 7.39E+00	2.29E+00	2.29E-05 +/- 3.88E-05
	4	75.71	1.27E+00 +/- 6.74E-01	2.16E+00	9.03E-05 +/- 7.60E-05
	5	99.47	3.79E+01 +/- 1.35E+00	2.06E+00	2.50E-04 +/- 6.29E-05
	6	111.69	7.91E+00 +/- 7.85E-01	2.02E+00	3.29E-04 +/- 3.66E-05
M	7	123.71	2.90E+00 +/- 2.89E-01	1.99E+00	3.92E-04 +/- 2.31E-05
m	8	125.97	1.26E+01 +/- 4.75E-01	1.99E+00	4.03E-04 +/- 2.40E-05
m	9	130.01	4.03E+01 +/- 1.05E+00	1.98E+00	4.19E-04 +/- 2.78E-05
	10	148.57	1.58E+00 +/- 4.87E-01	1.92E+00	4.73E-04 +/- 5.02E-05
	11	161.34	1.43E+00 +/- 4.94E-01	1.88E+00	4.93E-04 +/- 5.92E-05
	12	179.96	1.07E+00 +/- 3.62E-01	1.82E+00	5.01E-04 +/- 6.22E-05
	13	196.40	1.19E+00 +/- 4.72E-01	1.78E+00	4.96E-04 +/- 5.84E-05
	14	208.70	9.31E+00 +/- 6.18E-01	1.75E+00	4.88E-04 +/- 5.34E-05
	15	256.22	8.51E-01 +/- 2.51E-01	1.64E+00	4.36E-04 +/- 3.12E-05
	16	300.10	1.72E+00 +/- 3.19E-01	1.61E+00	3.86E-04 +/- 1.92E-05
	17	311.90	8.31E+00 +/- 3.68E-01	1.60E+00	3.74E-04 +/- 1.79E-05
	18	324.33	1.35E+00 +/- 2.75E-01	1.59E+00	3.61E-04 +/- 1.74E-05
M	19	333.49	4.13E+00 +/- 3.32E-01	1.58E+00	3.53E-04 +/- 1.73E-05
m	20	336.37	1.75E+00 +/- 1.95E-01	1.58E+00	3.50E-04 +/- 1.73E-05
	21	345.73	3.39E+00 +/- 2.85E-01	1.57E+00	3.41E-04 +/- 1.75E-05
	22	369.03	7.29E-01 +/- 3.13E-01	1.55E+00	3.22E-04 +/- 1.83E-05
	23	375.82	8.51E+00 +/- 4.61E-01	1.55E+00	3.16E-04 +/- 1.85E-05

M	24	380.91	1.37E+00	+/-	1.77E-01	1.54E+00	3.12E-04	+/- 1.87E-05
m	25	383.52	1.65E+00	+/-	1.89E-01	1.54E+00	3.10E-04	+/- 1.88E-05
	26	393.67	3.33E+00	+/-	2.42E-01	1.53E+00	3.03E-04	+/- 1.90E-05
	27	400.66	2.96E-01	+/-	1.53E-01	1.53E+00	2.98E-04	+/- 1.92E-05
	28	413.70	9.52E+00	+/-	3.43E-01	1.52E+00	2.89E-04	+/- 1.94E-05
	29	423.50	4.23E-01	+/-	1.07E-01	1.52E+00	2.83E-04	+/- 1.95E-05
	30	452.19	8.94E-01	+/-	1.38E-01	1.50E+00	2.67E-04	+/- 1.94E-05
	31	619.82	2.07E-01	+/-	5.32E-02	1.42E+00	2.03E-04	+/- 1.38E-05
	32	662.42	7.06E-01	+/-	9.94E-02	1.40E+00	1.92E-04	+/- 1.21E-05
	33	722.01	3.69E-01	+/-	6.99E-02	1.38E+00	1.80E-04	+/- 1.01E-05
	34	867.39	3.08E-02	+/-	2.55E-02	1.34E+00	1.57E-04	+/- 7.21E-06
	35	1408.01	4.30E-02	+/-	2.53E-02	1.26E+00	1.05E-04	+/- 7.00E-06
	36	2236.00	1.00E+02	+/-	1.53E+00	1.21E+00	5.36E-05	+/- 3.03E-05

Segment: 14 Detector: DET01 (# 1) Position: 14

Elapsed Live Time: 113.23 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.275 +/- 0.0110
SE-75	264.65	0.000 +/- 0.0000	0.354 +/- 0.0079
SE-75	279.53	0.000 +/- 0.0000	0.366 +/- 0.0091
SE-75	400.65	0.000 +/- 0.0000	0.409 +/- 0.0116

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)			Correction Factor	Original Efficiency		
	1	32.14	9.07E-01	+/-	2.06E-01	2.24E+00	3.57E-06	+/-	2.13E-05
	2	50.29	5.00E+00	+/-	1.03E+00	1.83E+00	4.73E-05	+/-	1.16E-04
	3	60.17	1.33E+02	+/-	2.11E+00	1.75E+00	9.59E-05	+/-	1.50E-04
	4	99.49	7.54E+00	+/-	6.81E-01	1.62E+00	3.19E-04	+/-	7.50E-05
	5	111.72	1.94E+00	+/-	4.65E-01	1.60E+00	3.70E-04	+/-	3.92E-05
M	6	125.99	1.91E+00	+/-	2.18E-01	1.58E+00	4.12E-04	+/-	2.40E-05
m	7	130.05	7.06E+00	+/-	4.56E-01	1.58E+00	4.22E-04	+/-	2.69E-05
	8	204.08	1.00E+00	+/-	2.15E-01	1.50E+00	4.57E-04	+/-	4.86E-05
	9	208.71	1.26E+00	+/-	3.41E-01	1.49E+00	4.54E-04	+/-	4.69E-05
	10	244.70	4.16E-01	+/-	1.77E-01	1.46E+00	4.28E-04	+/-	3.30E-05
	11	279.54	3.19E-01	+/-	2.06E-01	1.43E+00	3.98E-04	+/-	2.22E-05
	12	300.10	4.27E-01	+/-	1.82E-01	1.42E+00	3.81E-04	+/-	1.84E-05
	13	311.90	1.06E+00	+/-	1.84E-01	1.41E+00	3.71E-04	+/-	1.72E-05
M	14	333.46	8.13E-01	+/-	1.46E-01	1.40E+00	3.54E-04	+/-	1.64E-05
m	15	336.10	4.39E-01	+/-	9.94E-02	1.40E+00	3.51E-04	+/-	1.64E-05
	16	345.85	6.73E-01	+/-	1.38E-01	1.40E+00	3.44E-04	+/-	1.65E-05
	17	375.81	1.21E+00	+/-	1.99E-01	1.39E+00	3.22E-04	+/-	1.72E-05

18	380.82	7.26E-01 +/-	1.23E-01	1.39E+00	3.19E-04 +/-	1.74E-05
19	393.59	5.77E-01 +/-	1.18E-01	1.38E+00	3.10E-04 +/-	1.77E-05
20	413.70	1.84E+00 +/-	1.52E-01	1.37E+00	2.98E-04 +/-	1.80E-05
21	423.40	1.81E-01 +/-	7.76E-02	1.37E+00	2.92E-04 +/-	1.81E-05
22	443.98	7.30E-02 +/-	5.23E-02	1.36E+00	2.80E-04 +/-	1.81E-05
23	452.11	3.47E-01 +/-	6.08E-02	1.36E+00	2.76E-04 +/-	1.81E-05
24	662.42	2.33E-01 +/-	5.75E-02	1.29E+00	1.96E-04 +/-	1.14E-05
25	722.01	1.66E-01 +/-	3.81E-02	1.27E+00	1.81E-04 +/-	9.66E-06
26	1001.03	3.49E-02 +/-	1.75E-02	1.23E+00	1.37E-04 +/-	6.10E-06
27	2236.00	1.00E+02 +/-	1.50E+00	1.15E+00	7.64E-05 +/-	4.15E-05

Segment: 15 Detector: DET01 (# 1) Position: 15

Elapsed Live Time: 114.03 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.230 +/- 0.0107
SE-75	264.65	0.000 +/- 0.0000	0.311 +/- 0.0070
SE-75	279.53	0.000 +/- 0.0000	0.324 +/- 0.0082
SE-75	400.65	0.000 +/- 0.0000	0.379 +/- 0.0109

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.07	2.66E+01 +/- 8.06E-01	1.87E+00	1.21E-05 +/- 2.01E-05
2	99.34	9.60E-01 +/- 3.66E-01	1.72E+00	2.33E-04 +/- 5.75E-05
3	443.98	6.79E-02 +/- 4.50E-02	1.39E+00	2.45E-04 +/- 1.65E-05
4	1085.91	2.59E-02 +/- 1.50E-02	1.23E+00	1.21E-04 +/- 5.37E-06
5	1112.12	1.41E-02 +/- 1.71E-02	1.23E+00	1.18E-04 +/- 5.22E-06
6	2236.00	1.00E+02 +/- 1.50E+00	1.17E+00	3.18E-05 +/- 1.80E-05

Segment: 16 Detector: DET01 (# 1) Position: 16

Elapsed Live Time: 114.17 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.397 +/- 0.0141
SE-75	264.65	0.000 +/- 0.0000	0.491 +/- 0.0107
SE-75	279.53	0.000 +/- 0.0000	0.493 +/- 0.0117
SE-75	400.65	0.000 +/- 0.0000	0.552 +/- 0.0147

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	49.65	6.82E-01 +/- 4.30E-01	1.57E+00	2.96E-05 +/- 1.82E-05
M	2	57.55	6.12E+00 +/- 4.18E-01	1.52E+00	4.90E-05 +/- 2.30E-05
m	3	59.84	8.10E+00 +/- 4.69E-01	1.51E+00	5.53E-05 +/- 2.40E-05
	4	311.90	1.43E-01 +/- 8.41E-02	1.28E+00	2.22E-04 +/- 1.24E-05
	5	413.70	4.75E-02 +/- 2.89E-02	1.24E+00	1.79E-04 +/- 8.85E-06
	6	512.35	7.59E-02 +/- 4.99E-02	1.21E+00	1.47E-04 +/- 7.93E-06
	7	867.39	2.59E-02 +/- 1.50E-02	1.16E+00	8.96E-05 +/- 5.22E-06
	8	1112.12	8.63E-03 +/- 8.63E-03	1.14E+00	7.38E-05 +/- 3.43E-06
	9	2236.00	1.00E+02 +/- 1.49E+00	1.10E+00	6.28E-05 +/- 1.87E-05

Summed Spectrum

Peak Locate Report

Sample ID: LL85234322
Peak Locate Performed on: 5-01-08 11:10:24 AM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192
Peak Search Sensitivity: 5.00

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
1	64.64	0.1426	31.99	23.16
2	100.83	0.1271	50.08	20.01
3	121.03	0.0308	60.18	458.07
4	199.41	0.0532	99.37	141.08
5	224.09	0.0799	111.71	66.51
6	232.48	0.0993	115.91	26.01
7	260.75	0.0510	130.01	163.01
8	290.14	0.1451	144.74	23.49
9	299.36	0.1434	149.34	23.78
10	323.81	0.1694	161.57	11.56
11	344.92	0.1997	172.13	11.87
12	360.40	0.2218	179.87	8.67
13	373.50	0.1241	186.42	25.95
14	393.45	0.1680	196.39	13.83
15	409.10	0.0860	204.21	58.04
16	418.06	0.0648	208.69	100.49
17	479.02	0.1928	239.17	11.50
18	512.91	0.1626	256.12	16.45
19	530.04	0.2335	264.67	8.37
20	537.20	0.2359	268.26	8.13
21	596.86	0.2375	298.26	9.25
22	602.49	0.1728	300.85	14.61
23	625.94	0.0839	312.64	58.29
24	643.53	0.2483	321.67	7.46
25	649.46	0.1903	324.26	10.56
26	667.56	0.0793	333.47	60.53
27	673.99	0.1309	336.45	28.15
28	692.06	0.0794	345.70	64.82
29	738.42	0.1272	368.88	18.97
30	752.19	0.0585	375.76	111.42
31	762.15	0.1077	380.93	38.86
32	767.96	0.1155	383.50	34.42
33	787.90	0.0803	393.62	59.88
34	799.35	0.2558	399.34	5.42
35	829.54	0.0585	414.44	102.06
36	847.42	0.1151	423.38	26.96

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
37	905.08	0.1018	452.20	37.60
38	1024.18	0.1876	511.76	9.07
39	1119.22	0.2563	559.27	5.81
40	1168.55	0.1659	583.94	12.53
41	1240.18	0.2040	619.76	9.06
42	1294.12	0.2174	646.72	8.17
43	1327.16	0.1360	663.25	19.37
44	1446.35	0.1557	722.84	13.98
45	1514.73	0.2387	757.03	6.45
46	1540.31	0.2441	769.82	5.60
47	4473.05	0.0264	2236.19	408.63
48	5235.13	0.1988	2617.23	6.03

Errors quoted at 1.000 sigma

Summed Spectrum

Peak Analysis Report

Sample ID: LL85234322
Peak Analysis Performed on: 5-01-08 11:10:24 AM
Peak Analysis From Channel: 40
Peak Analysis To Channel: 8192

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	1	60-	71	64.64	31.99	3.94E+03	139.24	5.51E+03
	2	94-	105	100.83	50.08	1.54E+04	433.96	6.52E+04
	3	114-	127	121.03	60.18	3.78E+05	756.09	7.02E+04
	4	194-	203	199.41	99.37	3.72E+04	451.17	7.37E+04
	5	217-	228	224.09	111.71	4.93E+03	349.40	4.51E+04
	6	228-	239	232.48	115.91	7.01E+03	361.71	4.64E+04
F	7	257-	267	260.69	130.01	4.78E+04	378.03	1.18E+04
	8	283-	293	290.14	144.74	1.07E+03	210.76	1.80E+04
	9	297-	304	299.36	149.34	1.52E+03	169.05	1.33E+04
	10	316-	328	323.81	161.57	4.73E+02	232.00	2.02E+04
	11	338-	348	344.92	172.13	1.84E+03	187.33	1.40E+04
	12	356-	367	360.40	179.87	6.87E+02	191.12	1.43E+04
	13	367-	378	373.50	186.42	1.54E+03	199.94	1.53E+04
	14	386-	400	393.45	196.39	1.37E+03	217.10	1.59E+04
	15	404-	412	409.10	204.21	6.89E+03	166.29	9.76E+03
	16	412-	425	418.06	208.69	6.86E+03	278.32	2.34E+04
	17	474-	483	479.02	239.17	5.96E+02	123.76	6.50E+03
	18	508-	520	512.91	256.12	1.05E+03	137.20	6.74E+03
M	19	526-	540	530.02	264.67	4.49E+02	68.75	3.75E+03
m	20	526-	540	537.20	268.26	4.69E+02	70.77	3.67E+03
M	21	592-	609	597.18	298.26	7.36E+02	61.22	2.92E+03
m	22	592-	609	602.37	300.85	1.20E+03	80.64	3.12E+03
	23	620-	633	625.94	312.64	6.12E+03	141.50	5.02E+03
M	24	638-	656	644.00	321.67	7.51E+02	67.68	3.70E+03
m	25	638-	656	649.19	324.26	1.07E+03	79.78	3.51E+03
M	26	660-	679	667.61	333.47	7.95E+03	149.33	2.93E+03
m	27	660-	679	673.56	336.45	2.57E+03	75.45	3.34E+03
	28	691-	699	692.06	345.70	6.87E+03	112.11	2.34E+03
	29	730-	746	738.42	368.88	4.25E+02	144.20	6.19E+03
	30	746-	759	752.19	375.76	1.46E+04	205.74	9.19E+03
M	31	759-	775	762.53	380.93	3.34E+03	90.15	2.13E+03
m	32	759-	775	767.67	383.50	3.15E+03	84.13	1.63E+03
	33	780-	795	787.90	393.62	6.95E+03	114.59	2.06E+03
	34	795-	807	799.35	399.34	1.49E+02	62.12	1.39E+03
	35	821-	837	829.54	414.44	1.94E+04	152.89	1.27E+03
	36	839-	852	847.42	423.38	1.02E+03	66.94	1.25E+03
	37	897-	912	905.08	452.20	2.23E+03	65.23	6.70E+02

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
38	1016-	1029	1024.18	511.76	4.80E+02	35.37	2.81E+02
39	1116-	1127	1119.22	559.27	5.15E+01	22.48	1.77E+02
40	1163-	1174	1168.55	583.94	2.82E+02	28.07	2.01E+02
41	1232-	1244	1240.18	619.76	2.28E+02	23.68	1.27E+02
42	1290-	1299	1294.12	646.72	9.09E+01	21.56	1.64E+02
43	1318-	1335	1327.16	663.25	8.12E+02	37.77	1.90E+02
44	1442-	1454	1446.35	722.84	3.37E+02	28.73	1.70E+02
45	1511-	1518	1514.73	757.03	6.15E+01	11.84	3.85E+01
46	1531-	1545	1540.31	769.82	8.10E+01	20.82	1.22E+02
47	4462-	4483	4473.05	2236.19	1.81E+05	426.62	3.17E+02
48	5227-	5242	5235.13	2617.23	1.22E+02	11.30	1.94E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Summed Spectrum

Nuclide Identification Report

Sample ID: LL85234322
Nuclide Library Used: C:\WAS\NLIB\LLNL.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (uCi/)	Activity Uncertainty
Pulser	0.997	2236.00*	100.00	7.678E+02	1.840E+02
U-235	0.966	185.71*	57.20	2.267E+00	2.996E-01
Np-237	0.962	300.10*	6.63	1.741E+01	1.184E+00
		311.90*	38.60	1.566E+01	3.847E-01
Pu-239	0.962	413.70*	0.00	1.572E+06	3.195E+04
Pu-239A	0.964	129.29*	0.01	7.782E+05	2.003E+04
Am-241	0.953	662.42*	0.00	3.554E+05	1.689E+04
Am-241D	0.952	722.01*	0.00	3.219E+05	2.764E+04
Pu-241	0.958	148.57*	0.00	7.437E+05	8.391E+04

* = Energy line found in the spectrum.
Energy Tolerance : 1.500 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 5-01-08 11:10:24 AM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192

	Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
	1	31.99	3.5031E+01	3.54
	2	50.08	1.3649E+02	2.84
	3	60.18	3.3527E+03	0.33
	4	99.37	3.3075E+02	1.24
	5	111.71	4.3789E+01	7.09
	6	115.91	6.2247E+01	5.17
	8	144.74	9.4988E+00	19.71
	10	161.57	4.1993E+00	49.06
	11	172.13	1.6366E+01	10.17
	12	179.87	6.1018E+00	27.82
	14	196.39	1.2151E+01	15.87
	15	204.21	6.1190E+01	2.43
	16	208.69	6.0913E+01	4.07
	17	239.17	5.2896E+00	20.78
	18	256.12	9.3563E+00	13.03
M	19	264.67	3.9904E+00	15.30
m	20	268.26	4.1617E+00	15.10
M	21	298.26	6.5383E+00	8.32
M	24	321.67	6.6712E+00	9.01
m	25	324.26	9.4677E+00	7.49
M	26	333.47	7.0628E+01	1.90
m	27	336.45	2.2834E+01	2.95
	28	345.70	6.1032E+01	1.65
	29	368.88	3.7711E+00	33.96
	30	375.76	1.2965E+02	1.43
M	31	380.93	2.9649E+01	2.71
m	32	383.50	2.7948E+01	2.69
	33	393.62	6.1680E+01	1.67
	34	399.34	1.3237E+00	41.68
	36	423.38	9.0357E+00	6.58
	37	452.20	1.9794E+01	2.94
	38	511.76	4.2583E+00	7.38
	39	559.27	4.5726E-01	43.66
	40	583.94	2.5001E+00	9.97
	41	619.76	2.0271E+00	10.38
	42	646.72	8.0728E-01	23.72
	45	757.03	5.4594E-01	19.27
	46	769.82	7.1917E-01	25.71
	48	2617.23	1.0840E+00	9.26

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Combined Segment NID

NID Results Combiner Mode: Sum Activities

Nuclide		Total Activity (uCi)		Concentration (uCi/g)	
Pulser		8.61E+02 +/- 1.27E+02		2.39E-02 +/- 3.53E-03	
SE-75	<	3.04E-01 +/- 2.17E-02	<	8.46E-06 +/- 6.03E-07	
EU-152x	<	2.62E-01 +/- 1.97E-02	<	7.28E-06 +/- 5.47E-07	
U-233	<	1.89E+04 +/- 1.64E+03	<	5.24E-01 +/- 4.55E-02	
U-235		3.67E+00 +/- 2.32E-01		1.02E-04 +/- 6.43E-06	
Np-237		1.67E+01 +/- 4.63E-01		4.64E-04 +/- 1.29E-05	
Pu-238	<	2.76E+04 +/- 3.36E+03	<	7.67E-01 +/- 9.34E-02	
U-238		4.54E+00 +/- 1.41E+00		1.26E-04 +/- 3.92E-05	
Pu-239		1.82E+06 +/- 6.18E+04		5.06E+01 +/- 1.72E+00	
Pu-239A		9.28E+05 +/- 2.73E+04		2.58E+01 +/- 7.59E-01	
Am-241		3.29E+05 +/- 1.85E+04		9.15E+00 +/- 5.14E-01	
Am-241D		3.98E+05 +/- 2.80E+04		1.10E+01 +/- 7.78E-01	
Pu-241		1.08E+06 +/- 1.11E+05		3.01E+01 +/- 3.09E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)
U-235	1.70E+00 +/- 1.07E-01
Np-237	2.37E-02 +/- 6.58E-04
U-238	1.35E+01 +/- 4.20E+00
Pu-239	2.93E+01 +/- 9.96E-01
Pu-239A	1.49E+01 +/- 4.40E-01
Am-241	9.62E-02 +/- 5.40E-03
Pu-241	1.05E-02 +/- 1.07E-03

Summed Spectrum

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		7.68E+02	+/-	1.84E+02	2.13E-02	+/-	5.11E-03
SE-75	<	8.51E-01	+/-	8.13E-03	< 2.37E-05	+/-	2.26E-07
EU-152x	<	7.14E-01	+/-	1.34E-02	< 1.98E-05	+/-	3.73E-07
U-233	<	5.69E+04	+/-	1.27E+03	< 1.58E+00	+/-	3.52E-02
U-235		2.27E+00	+/-	3.00E-01	6.30E-05	+/-	8.32E-06
Np-237		1.58E+01	+/-	3.66E-01	4.40E-04	+/-	1.02E-05
Pu-238	<	9.08E+04	+/-	1.80E+03	< 2.52E+00	+/-	5.01E-02
U-238	<	1.62E+01	+/-	2.60E-01	< 4.51E-04	+/-	7.22E-06
Pu-239		1.57E+06	+/-	3.19E+04	4.37E+01	+/-	8.87E-01
Pu-239A		7.78E+05	+/-	2.00E+04	2.16E+01	+/-	5.56E-01
Am-241		3.55E+05	+/-	1.69E+04	9.87E+00	+/-	4.69E-01
Am-241D		3.22E+05	+/-	2.76E+04	8.94E+00	+/-	7.68E-01
Pu-241		7.44E+05	+/-	8.39E+04	2.07E+01	+/-	2.33E+00

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
U-235	1.05E+00	+/-	1.39E-01
Np-237	2.25E-02	+/-	5.19E-04
Pu-239	2.53E+01	+/-	5.14E-01
Pu-239A	1.25E+01	+/-	3.22E-01
Am-241	1.04E-01	+/-	4.93E-03
Pu-241	7.19E-03	+/-	8.11E-04

Final Non-Uniformity Results

Source Longitudinal Ratio:	0.900	+/-	5.9333
Matrix Longitudinal Ratio:	0.696	+/-	0.0617
Source Vertical Ratio:	0.844	+/-	0.4270
Matrix Vertical Ratio:	0.575	+/-	0.0154

NUDS could not find the transmission peak in one radial segment.

Radioassay Data Sheet — Thu Apr 10 07:09:27 2008
Procedure ID & Rev: WCP-55 03/07/2002 — Software Version: GWAS v2.3bGEN

Drum ID	: S100-2669	Gross Weight (kg)	: 54.0
Sequence Number	: 2669	Fill Height (%)	: 100.0
Assay Date	: 04/09/08 06:58:49	Density (g/cc)	: 0.11
		Net Weight (kg)	: 22.20
Batch Number	:	Waste Matrix Code	:
Site ID	:	TRUCON	:

	Errors at 1.00 Sigma		
TRU Alpha Activity Concentration:	4.25e-04	+/- 5.19e-05	Ci/g
Total Pu-239 Equiv Activity:	9.83e+00	+/- 1.15e+00	Ci
Total Pu-239 Fissile Gram Equiv:	1.05e+02	+/- 1.78e+01	g
Decay Heat:	3.02e-01	+/- 3.64e-02	W
Total Pu Mass:	1.10e+02	+/- 1.78e+01	g
TMU:	17.09%		
Waste Classification:	TRU		

Isotopics Data

Measured Isotope	MGA Report Weight %	MGA Report % Err (1.00 Sigma)
Pu-238	9.39e-03	5.89e+00
Pu-239	9.42e+01	4.75e-02
Pu-240	5.57e+00	7.96e-01
Pu-241	1.79e-01	6.36e-01
Pu-242	3.07e-02	1.00e+01
Am-241	4.97e-01	4.42e-01
Am-243	0.00e+00	0.00e+00
Np-237	0.00e+00	0.00e+00
U-235	0.00e+00	0.00e+00

Activity Errors

Isotope	Isotope Mass (g)	1.00 Sigma Error/Isotope Mass (g)	Alpha Activity/ Isotope (Ci)	1.00 Sigma Error/Isotope (Ci)	MDA (g)
Pu-238	1.04e-02	1.87e-03	1.77e-01	3.21e-02	3.07e-03
Pu-239	1.04e+02	1.78e+01	6.45e+00	1.10e+00	3.16e-01
Pu-240	6.15e+00	1.05e+00	1.40e+00	2.39e-01	0.00e+00
Pu-241	1.97e-01	3.37e-02	2.04e+01	3.48e+00	6.31e-03
Pu-242	3.39e-02	6.70e-03	1.33e-04	2.63e-05	0.00e+00
Am-241	4.16e-01	6.98e-02	1.42e+00	2.39e-01	6.03e-03
Am-243	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
Np-237	1.27e-02	2.24e-03	8.96e-06	1.58e-06	1.76e-03
*U-235	<LLD	0.00e+00	0.00e+00	0.00e+00	3.35e-01
*U-238	<LLD	0.00e+00	0.00e+00	0.00e+00	1.76e+01
*U-233	<LLD	0.00e+00	0.00e+00	0.00e+00	3.22e+00
CS-137	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
U-234	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
SR-90	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00

* = Activity/Mass below detectable limit.

Operator Signature _____ Date _____

Reviewer Signature _____ Date _____

AUTOMATED INDEPENDENT TECHNICAL REVIEW BASED ON WCP-55 03/07/2002

```
Software Version:           GWAS v2.3bGEN
Counter Number:             SGS
Data Review for Container: S100-2669
Item Description Code:       \Count Type: DEBRIS
Sequence Number:            2669
Assayed on:                 04/09/08  06:58:49
Report Generated:           04/10/08  07:09:12
AITR Version 1.4
```

Section 1 MGA Analysis Review Using MGA Isotopics

```
REVIEW      Pu-240 Wt Pct +2 Sigma error <5.66> less than <5.87> Review MGA Results
            Pu-240 Wt Pct error <0.80> is within limits
            Pu-238 Wt Pct error <5.89> is within limits
REVIEW      QFIT <1.31> > <1.20>  Review MGA Results
```

Section 2 - CONTAINER DENSITY REVIEW

```
            Container density <0.107> g/cc is within UPPER and LOWER limits
```

Section 3 - SELF-ABSORPTION REVIEW

```
            Pu-239/Pu-239a ratio <1.53e+00> is within limits
```

Section 4 - PULSER REVIEW

```
            DEAD TIME percentage <1.53> is acceptable in Segment 1
            Pulser value <0.99> is within range in Segment 1
            DEAD TIME percentage <1.92> is acceptable in Segment 2
            Pulser value <0.99> is within range in Segment 2
            DEAD TIME percentage <4.38> is acceptable in Segment 3
            Pulser value <0.99> is within range in Segment 3
            DEAD TIME percentage <14.75> is acceptable in Segment 4
            Pulser value <1.00> is within range in Segment 4
            DEAD TIME percentage <27.12> is acceptable in Segment 5
REVIEW      Pulser value <0.98> out of range in Segment 5
            DEAD TIME percentage <26.76> is acceptable in Segment 6
REVIEW      Pulser value <0.98> out of range in Segment 6
            DEAD TIME percentage <16.79> is acceptable in Segment 7
            Pulser value <0.98> is within range in Segment 7
            DEAD TIME percentage <5.96> is acceptable in Segment 8
            Pulser value <1.00> is within range in Segment 8
            DEAD TIME percentage <2.03> is acceptable in Segment 9
            Pulser value <0.99> is within range in Segment 9
            DEAD TIME percentage <1.52> is acceptable in Segment 10
            Pulser value <1.00> is within range in Segment 10
            DEAD TIME percentage <1.25> is acceptable in Segment 11
            Pulser value <0.99> is within range in Segment 11
            DEAD TIME percentage <1.03> is acceptable in Segment 12
            Pulser value <1.00> is within range in Segment 12
            DEAD TIME percentage <0.87> is acceptable in Segment 13
            Pulser value <0.98> is within range in Segment 13
            DEAD TIME percentage <0.74> is acceptable in Segment 14
            Pulser value <0.99> is within range in Segment 14
            DEAD TIME percentage <0.70> is acceptable in Segment 15
            Pulser value <0.98> is within range in Segment 15
            DEAD TIME percentage <0.69> is acceptable in Segment 16
            Pulser value <0.99> is within range in Segment 16
```

Section 5 - TRANSMISSION REVIEW

```
            Transmission results are acceptable in Segment 1
            Transmission results are acceptable in Segment 2
            Transmission results are acceptable in Segment 3
            Transmission results are acceptable in Segment 4
            Transmission results are acceptable in Segment 5
            Transmission results are acceptable in Segment 6
REVIEW      Low Transmission Line <136.000000> < <0.001> found in Segment 7
            Transmission results are acceptable in Segment 8
```

Transmission results are acceptable in Segment 9
Transmission results are acceptable in Segment 10
Transmission results are acceptable in Segment 11
Transmission results are acceptable in Segment 12
Transmission results are acceptable in Segment 13
Transmission results are acceptable in Segment 14
Transmission results are acceptable in Segment 15
Transmission results are acceptable in Segment 16

Section 6 - REDUCED CHI SQUARED FIT REVIEW

REVIEW Reduced chi squared fit value <9.83e+00> exceeds limit <3.00> for energy peak <129.99> in Segment 4
REVIEW Reduced chi squared fit value <2.14e+01> exceeds limit <3.00> for energy peak <129.93> in Segment 5
REVIEW Reduced chi squared fit value <1.45e+01> exceeds limit <3.00> for energy peak <129.94> in Segment 6
REVIEW Reduced chi squared fit value <5.89e+00> exceeds limit <3.00> for energy peak <129.97> in Segment 7

Section 7 - FGE MASS REVIEW

REVIEW FGE Mass <122.30> > <110.00>

Section 8 - PERCENT FULL REVIEW

Percent Full <100.0> is above lower limit <30.0>

Section 9 - IDC COUNT TYPE REVIEW

REVIEW IDC is not available

Section 10 - AM-241 & NP-237 INTERFERENCE REVIEW

Am-241 ratio <250.10> is above lower limit <200.00>
Np-237 ratio <8179.67> is above lower limit <125.00>

Section 11 - PU-239 CALIBRATION RANGE REVIEW

Pu-239 <103.95> is within limits

Section 12 - CS-137 INTERFERENCE REVIEW

Am-241D > Am-241A: Calculation not performed

Independent Reviewer:_____ Date:_____

INDEPENDENT TECHNICAL REVIEW COMMENT SHEET

Counter Number: SGS
Data Review for Container: S100-2669
Item Description Code:
Sequence Number: 2669
Assayed on: 04/09/08 06:58:49
AITR Version 1.4

Comments	Disposition
SECTION 1 - MGA Pu-240 Wt Pct +2 Sigma error is less than lower limit. QFIT is greater than upper limit.	
SECTION 4 - PULSER Pulser value out of range in Segment 5 Pulser value out of range in Segment 6	
SECTION 5 - TRANSMISSION Low Transmission Line 136.0 less than 0.001 found in Segment 7	
SECTION 6 - REDUCED CHI SQUARED FIT Chi square failure for 130.0 Kev in Segment 4 Chi square failure for 129.9 Kev in Segment 5 Chi square failure for 129.9 Kev in Segment 6 Chi square failure for 130.0 Kev in Segment 7	
SECTION 7 - FGE MASS FGE Mass is greater than upper limit.	
SECTION 9 - IDC COUNT TYPE IDC is not available.	

Technical Reviewer:_____ Date:_____

```
**************************************************************************
*****                    M G A   R E P O R T                         *****
**************************************************************************

Report generated on:                                    4-09-08  7:55:22 AM

MGA version: MGA V9.5 CI

Spectrum ID: 11202669.CNF   Sens :   30.0%   LT:   46.6 Mins   DT: 16.61
Measurement date:  4-09-08                    Declared date:      4-09-08

Sample ID: S100-2669          Detector:          Total counts:  1.298E+07

Pu g/cm2 = 0.7994       Cd g/cm2 = 1.7971       FWHM at 122 keV = 615 eV
QFIT  = 1.31                                    FWHM at 208 keV = 785 eV
NQFIT = 1.01
```

Isotope	Relative to Pu-239	%* Err	% Err	Relative to Pu-241	%* Err	Isotope analysis at Meas. date % weight	Meas. date %Err	Decl. date % weight	Decl. date %Err
Pu-238	0.000100	5.9	5.9	0.0526	5.9	0.00939	5.89	0.00939	5.89
Pu-239	1.000000	0.0	0.4	527.3198	0.6	94.20825	0.05	94.20825	0.05
Pu-240	0.059156	0.8	0.8	31.1943	0.9	5.57301	0.80	5.57301	0.80
Pu-241	0.001896	0.6	0.6	1.0000	0.0	0.17865	0.64	0.17865	0.64
Pu-242	(New alg.)			0.1718	(10)	0.03069	(10)	0.03069	(10)
Am-241	0.005272	0.5	0.3	2.7800	0.6	0.49666	0.44	0.49666	0.44

```
Pu-240 effective (meas. date) =  5.648 +/-  0.86%
Am-241 separated about  27.572 +/- 0.146 years ago
Am/Pu-241 weight ratio = 2.78002 +/-  0.65%

Messages :

   Lead x-rays detected.
  17 MGA parameter(s) defaulted, starting from parameter  8.

Notes : * = Error in ratio
        1.000 sigma errors
  Report for: S100-2669          4-09-08  7:55:36 AM              Page   1
```

Gamma Waste Assay

Sample Information

```
  File Name:          C:\WAS\DATA\2700\11102669.S11
  Sample ID:          S100-2669          Count Sequence Number:     2669
  Assay Start:         4-09-08  6:58:51 AM
  Description 1:
  Description 2:
  Location:
  Comment:
  Waste Type:
  Weight:             Gross: 54000.0 g          Net:  22200.0 g
  Density:               0.107 g  /ml

  Container Type:     55 Gal Galv
  Container:          Volume: 208000. ml        Full:   100.0 %
```

System Configuration

Counter ID Number:	SGS			
Arrangement Description:	SGS			
Segments:	Number:	16	Offset:	0
Scanning Platform:	Start:	934 mm	Delta:	-51 mm
Count Type:	Daily 100g Drum Check			
Collimator/Geometry Setting:	0			
Transmission Mode:	Two pass			
Transmission Source:	0			

Errors quoted at 1.000 sigma
Reference Source Date: Reference Source Rate: 1.00E+02 cps
Geometric Correction Factor(SWCONTGCF): 0.760
Date of efficiency calibration approval: 8-27-2003 2:05:34 PM
Mu Factors response file: Lucite
Transmission Calib. Time: 12-11-2007 9:07:38 AM 22209

Reviewed by: _____ Date: _____

Segment Results

Segment: 1 Detector: DET01 (# 1) Position: 1

Elapsed Live Time: 113.24 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.337 +/- 0.0123
SE-75	264.65	0.000 +/- 0.0000	0.457 +/- 0.0042
SE-75	279.53	0.000 +/- 0.0000	0.458 +/- 0.0065
SE-75	400.65	0.000 +/- 0.0000	0.503 +/- 0.0095

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.04	7.77E-01 +/- 1.58E-01	2.02E+00	4.66E-10 +/- 3.31E-09
2	49.37	3.12E+00 +/- 5.23E-01	1.69E+00	7.12E-07 +/- 2.14E-06
3	59.83	8.45E+00 +/- 5.77E-01	1.62E+00	6.00E-06 +/- 1.12E-05
4	95.22	3.12E+00 +/- 8.88E-01	1.52E+00	1.29E-04 +/- 4.49E-05
5	129.29	7.39E-01 +/- 4.48E-01	1.48E+00	3.01E-04 +/- 2.13E-05
6	2236.00	1.00E+02 +/- 1.50E+00	1.12E+00	3.40E-05 +/- 2.15E-05

Segment: 2 Detector: DET01 (# 1) Position: 2

Elapsed Live Time: 112.79 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.408 +/- 0.0136
SE-75	264.65	0.000 +/- 0.0000	0.532 +/- 0.0046
SE-75	279.53	0.000 +/- 0.0000	0.537 +/- 0.0073
SE-75	400.65	0.000 +/- 0.0000	0.592 +/- 0.0107

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.02	9.34E-01 +/- 1.94E-01	1.81E+00	1.87E-05 +/- 1.16E-04
2	49.10	3.76E+00 +/- 5.95E-01	1.55E+00	7.92E-05 +/- 2.11E-04
3	60.07	1.63E+01 +/- 7.12E-01	1.49E+00	1.32E-04 +/- 2.14E-04
4	85.63	1.38E+00 +/- 6.43E-01	1.43E+00	2.56E-04 +/- 1.29E-04
5	99.39	1.31E+00 +/- 8.41E-01	1.41E+00	3.09E-04 +/- 7.50E-05
6	121.11	8.96E-01 +/- 5.64E-01	1.39E+00	3.71E-04 +/- 2.29E-05
7	662.42	2.81E-02 +/- 3.85E-02	1.16E+00	1.86E-04 +/- 1.15E-05
8	1085.91	4.39E-02 +/- 1.96E-02	1.12E+00	1.20E-04 +/- 5.31E-06
9	2236.00	1.00E+02 +/- 1.50E+00	1.09E+00	9.73E-05 +/- 5.41E-05

Segment: 3 Detector: DET01 (# 1) Position: 3

Elapsed Live Time: 109.96 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.373 +/- 0.0154
SE-75	264.65	0.000 +/- 0.0000	0.466 +/- 0.0044
SE-75	279.53	0.000 +/- 0.0000	0.491 +/- 0.0072
SE-75	400.65	0.000 +/- 0.0000	0.512 +/- 0.0102

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
M	1	32.04	3.88E+00 +/- 3.03E-01	1.91E+00	3.45E-06 +/- 3.30E-06
m	2	34.09	2.88E+00 +/- 2.92E-01	1.84E+00	5.13E-06 +/- 4.51E-06
	3	49.87	3.72E+00 +/- 9.11E-01	1.61E+00	3.84E-05 +/- 1.87E-05
	4	60.14	7.84E+01 +/- 1.52E+00	1.55E+00	8.06E-05 +/- 2.79E-05
	5	99.39	3.07E+01 +/- 1.48E+00	1.46E+00	2.97E-04 +/- 3.03E-05
	6	111.71	7.59E+00 +/- 1.09E+00	1.44E+00	3.54E-04 +/- 2.60E-05
M	7	125.93	2.91E+00 +/- 3.77E-01	1.43E+00	4.08E-04 +/- 2.27E-05
m	8	130.01	2.71E+01 +/- 1.01E+00	1.43E+00	4.20E-04 +/- 2.22E-05
	9	148.57	2.70E+00 +/- 7.03E-01	1.41E+00	4.63E-04 +/- 2.25E-05
	10	189.81	1.88E+00 +/- 7.50E-01	1.37E+00	4.95E-04 +/- 2.58E-05
	11	196.31	1.50E+00 +/- 6.68E-01	1.37E+00	4.95E-04 +/- 2.60E-05
	12	208.68	1.57E+01 +/- 8.59E-01	1.36E+00	4.92E-04 +/- 2.59E-05

	13	256.03	1.48E+00	+/- 4.71E-01	1.32E+00	4.58E-04	+/-	2.28E-05
	14	298.16	1.28E+00	+/- 5.10E-01	1.29E+00	4.18E-04	+/-	1.90E-05
	15	311.90	6.23E-01	+/- 3.98E-01	1.29E+00	4.04E-04	+/-	1.79E-05
M	16	333.48	8.06E+00	+/- 5.01E-01	1.29E+00	3.84E-04	+/-	1.63E-05
m	17	336.35	2.51E+00	+/- 2.51E-01	1.28E+00	3.81E-04	+/-	1.61E-05
M	18	342.21	5.75E-01	+/- 1.53E-01	1.28E+00	3.76E-04	+/-	1.58E-05
m	19	345.75	6.40E+00	+/- 4.64E-01	1.28E+00	3.72E-04	+/-	1.56E-05
	20	368.86	2.24E+00	+/- 4.10E-01	1.28E+00	3.52E-04	+/-	1.44E-05
	21	375.81	1.08E+01	+/- 6.61E-01	1.28E+00	3.46E-04	+/-	1.41E-05
M	22	380.92	2.92E+00	+/- 2.84E-01	1.28E+00	3.42E-04	+/-	1.38E-05
m	23	383.52	2.48E+00	+/- 2.45E-01	1.28E+00	3.40E-04	+/-	1.37E-05
	24	393.69	6.29E+00	+/- 3.54E-01	1.28E+00	3.31E-04	+/-	1.34E-05
	25	413.70	1.70E+01	+/- 4.58E-01	1.27E+00	3.16E-04	+/-	1.28E-05
	26	423.30	1.09E+00	+/- 1.91E-01	1.27E+00	3.09E-04	+/-	1.26E-05
	27	452.24	1.82E+00	+/- 1.65E-01	1.26E+00	2.89E-04	+/-	1.20E-05
	28	619.97	9.31E-02	+/- 5.75E-02	1.22E+00	2.08E-04	+/-	1.01E-05
	29	662.42	7.89E-01	+/- 1.06E-01	1.21E+00	1.95E-04	+/-	9.62E-06
	30	722.01	5.11E-01	+/- 7.78E-02	1.20E+00	1.79E-04	+/-	8.87E-06
	31	778.90	2.77E-02	+/- 2.04E-02	1.19E+00	1.66E-04	+/-	8.11E-06
	32	1085.91	3.61E-02	+/- 1.81E-02	1.16E+00	1.28E-04	+/-	4.75E-06
	33	2236.00	1.00E+02	+/- 1.52E+00	1.11E+00	1.32E-04	+/-	3.24E-05

Segment: 4 Detector: DET01 (# 1) Position: 4

Elapsed Live Time: 98.04 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.308 +/- 0.0209
SE-75	264.65	0.000 +/- 0.0000	0.489 +/- 0.0096
SE-75	279.53	0.000 +/- 0.0000	0.482 +/- 0.0112
SE-75	400.65	0.000 +/- 0.0000	0.549 +/- 0.0154

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)		Correction Factor	Original Efficiency		
	1	32.03	1.63E+01	+/- 8.66E-01	2.12E+00	1.17E-07	+/-	7.17E-07
	2	50.02	3.54E+00	+/- 1.36E+00	1.75E+00	1.05E-05	+/-	2.64E-05
	3	60.16	4.55E+02	+/- 6.25E+00	1.67E+00	3.62E-05	+/-	5.76E-05
	4	99.38	1.82E+02	+/- 3.79E+00	1.56E+00	2.64E-04	+/-	6.34E-05
	5	111.70	4.09E+01	+/- 2.15E+00	1.54E+00	3.35E-04	+/-	3.62E-05
	6	116.38	1.60E+01	+/- 2.90E+00	1.53E+00	3.58E-04	+/-	2.81E-05
M	7	125.93	2.43E+01	+/- 8.60E-01	1.52E+00	3.99E-04	+/-	2.37E-05
m	8	129.99	1.62E+02	+/- 2.95E+00	1.52E+00	4.14E-04	+/-	2.68E-05
	9	148.57	1.84E+01	+/- 1.27E+00	1.48E+00	4.63E-04	+/-	4.66E-05

	10	172.06	6.12E+00	+/- 1.19E+00	1.44E+00	4.88E-04	+/-	5.77E-05
	11	180.03	3.81E+00	+/- 1.29E+00	1.42E+00	4.90E-04	+/-	5.79E-05
	12	189.95	5.36E+00	+/- 9.73E-01	1.40E+00	4.89E-04	+/-	5.65E-05
	13	196.29	5.49E+00	+/- 1.18E+00	1.39E+00	4.87E-04	+/-	5.48E-05
	14	208.68	9.57E+01	+/- 2.19E+00	1.37E+00	4.80E-04	+/-	5.05E-05
	15	222.01	1.97E+00	+/- 1.14E+00	1.35E+00	4.70E-04	+/-	4.48E-05
	16	244.70	1.90E+00	+/- 9.03E-01	1.32E+00	4.48E-04	+/-	3.50E-05
	17	256.03	7.04E+00	+/- 7.34E-01	1.31E+00	4.36E-04	+/-	3.06E-05
M	18	264.74	1.70E+00	+/- 3.52E-01	1.30E+00	4.27E-04	+/-	2.75E-05
m	19	268.19	4.65E+00	+/- 5.89E-01	1.30E+00	4.23E-04	+/-	2.63E-05
	20	298.11	2.71E+00	+/- 8.69E-01	1.29E+00	3.91E-04	+/-	1.92E-05
	21	311.90	4.74E+00	+/- 6.92E-01	1.29E+00	3.77E-04	+/-	1.75E-05
M	22	321.70	4.77E+00	+/- 5.67E-01	1.28E+00	3.68E-04	+/-	1.69E-05
m	23	324.26	5.74E+00	+/- 6.04E-01	1.28E+00	3.66E-04	+/-	1.67E-05
M	24	333.43	4.56E+01	+/- 1.24E+00	1.27E+00	3.57E-04	+/-	1.65E-05
m	25	336.37	1.49E+01	+/- 5.94E-01	1.27E+00	3.54E-04	+/-	1.65E-05
M	26	342.15	5.06E+00	+/- 3.49E-01	1.27E+00	3.49E-04	+/-	1.65E-05
m	27	345.73	4.13E+01	+/- 1.18E+00	1.27E+00	3.46E-04	+/-	1.65E-05
	28	368.90	3.92E+00	+/- 1.03E+00	1.26E+00	3.26E-04	+/-	1.70E-05
	29	375.76	7.64E+01	+/- 1.77E+00	1.26E+00	3.21E-04	+/-	1.71E-05
M	30	380.94	1.74E+01	+/- 6.88E-01	1.25E+00	3.17E-04	+/-	1.72E-05
m	31	383.49	1.70E+01	+/- 6.46E-01	1.25E+00	3.15E-04	+/-	1.73E-05
	32	393.61	3.72E+01	+/- 9.09E-01	1.25E+00	3.08E-04	+/-	1.75E-05
	33	413.70	9.92E+01	+/- 1.64E+00	1.24E+00	2.94E-04	+/-	1.78E-05
	34	423.33	5.76E+00	+/- 4.37E-01	1.24E+00	2.87E-04	+/-	1.79E-05
	35	452.19	1.13E+01	+/- 4.59E-01	1.23E+00	2.70E-04	+/-	1.78E-05
	36	482.03	4.56E-01	+/- 1.70E-01	1.22E+00	2.54E-04	+/-	1.73E-05
	37	598.09	3.13E-01	+/- 9.77E-02	1.20E+00	2.08E-04	+/-	1.35E-05
	38	619.73	1.42E+00	+/- 1.68E-01	1.20E+00	2.02E-04	+/-	1.27E-05
	39	646.70	7.07E-01	+/- 1.27E-01	1.19E+00	1.94E-04	+/-	1.18E-05
	40	653.45	2.59E-01	+/- 2.05E-01	1.19E+00	1.93E-04	+/-	1.16E-05
M	41	659.83	3.27E-01	+/- 8.03E-02	1.19E+00	1.91E-04	+/-	1.14E-05
m	42	663.28	5.45E+00	+/- 3.80E-01	1.19E+00	1.90E-04	+/-	1.12E-05

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	689.69	5.15E-01 +/- 1.04E-01	1.18E+00	1.84E-04 +/- 1.05E-05
44	722.01	2.25E+00 +/- 1.76E-01	1.18E+00	1.77E-04 +/- 9.59E-06
45	756.88	3.12E-01 +/- 6.44E-02	1.17E+00	1.70E-04 +/- 8.82E-06
46	770.24	6.94E-01 +/- 9.72E-02	1.17E+00	1.68E-04 +/- 8.56E-06
47	1112.12	3.90E-02 +/- 3.45E-02	1.14E+00	1.26E-04 +/- 5.66E-06
48	2236.00	1.00E+02 +/- 1.60E+00	1.10E+00	7.00E-05 +/- 3.84E-05

Segment: 5 Detector: DET01 (# 1) Position: 5

Elapsed Live Time: 83.81 sec Elapsed Real Time: 115.00 sec

Analysis Warnings:
Minimum transmission used.

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.005 +/- 0.0025
SE-75	264.65	0.000 +/- 0.0000	0.224 +/- 0.0064
SE-75	279.53	0.000 +/- 0.0000	0.241 +/- 0.0086
SE-75	400.65	0.000 +/- 0.0000	0.363 +/- 0.0146

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	32.05	3.06E+01 +/- 1.26E+00	4.10E+00	2.77E-07 +/- 1.83E-06
	2	50.03	1.20E+01 +/- 1.88E+00	4.10E+00	1.59E-05 +/- 4.31E-05
	3	60.13	1.09E+03 +/- 1.47E+01	4.10E+00	4.78E-05 +/- 8.22E-05
	4	75.15	4.72E+00 +/- 2.22E+00	4.10E+00	1.27E-04 +/- 1.12E-04
	5	99.33	3.64E+02 +/- 6.57E+00	4.10E+00	2.77E-04 +/- 7.11E-05
	6	111.67	7.52E+01 +/- 3.24E+00	4.10E+00	3.41E-04 +/- 3.83E-05
	7	116.29	4.27E+01 +/- 4.30E+00	4.10E+00	3.61E-04 +/- 2.89E-05
M	8	125.90	4.80E+01 +/- 1.33E+00	4.10E+00	3.97E-04 +/- 2.36E-05
m	9	129.93	3.32E+02 +/- 5.39E+00	4.10E+00	4.09E-04 +/- 2.72E-05
	10	148.57	4.13E+01 +/- 2.13E+00	3.07E+00	4.48E-04 +/- 4.84E-05
	11	161.54	6.14E+00 +/- 1.88E+00	2.67E+00	4.62E-04 +/- 5.67E-05
	12	172.11	1.73E+01 +/- 1.97E+00	2.46E+00	4.67E-04 +/- 5.93E-05
	13	179.76	8.68E+00 +/- 1.79E+00	2.34E+00	4.67E-04 +/- 5.93E-05
	14	189.83	7.05E+00 +/- 1.03E+00	2.22E+00	4.65E-04 +/- 5.77E-05
	15	196.26	1.40E+01 +/- 1.57E+00	2.15E+00	4.63E-04 +/- 5.58E-05
	16	208.66	1.99E+02 +/- 3.72E+00	2.03E+00	4.56E-04 +/- 5.12E-05

	17	221.87	1.68E+00	+/- 9.01E-01	1.92E+00	4.46E-04	+/-	4.54E-05
	18	238.61	2.35E+00	+/- 9.09E-01	1.81E+00	4.31E-04	+/-	3.78E-05
	19	256.13	1.38E+01	+/- 1.11E+00	1.72E+00	4.14E-04	+/-	3.05E-05
M	20	264.57	5.00E+00	+/- 5.89E-01	1.67E+00	4.06E-04	+/-	2.74E-05
m	21	268.17	9.41E+00	+/- 8.52E-01	1.67E+00	4.03E-04	+/-	2.62E-05
	22	298.11	7.07E+00	+/- 9.94E-01	1.60E+00	3.74E-04	+/-	1.90E-05
	23	311.90	1.09E+01	+/- 9.50E-01	1.57E+00	3.62E-04	+/-	1.74E-05
M	24	321.73	9.20E+00	+/- 8.44E-01	1.55E+00	3.53E-04	+/-	1.68E-05
m	25	324.09	1.10E+01	+/- 8.74E-01	1.55E+00	3.51E-04	+/-	1.68E-05
M	26	333.39	8.33E+01	+/- 1.92E+00	1.53E+00	3.43E-04	+/-	1.67E-05
m	27	336.34	2.93E+01	+/- 9.25E-01	1.53E+00	3.41E-04	+/-	1.67E-05
	28	345.67	7.05E+01	+/- 1.47E+00	1.51E+00	3.33E-04	+/-	1.69E-05
	29	375.70	1.48E+02	+/- 2.93E+00	1.47E+00	3.11E-04	+/-	1.79E-05
M	30	380.87	3.24E+01	+/- 1.04E+00	1.46E+00	3.07E-04	+/-	1.81E-05
m	31	383.44	3.22E+01	+/- 1.00E+00	1.46E+00	3.06E-04	+/-	1.82E-05
	32	393.57	7.17E+01	+/- 1.48E+00	1.44E+00	2.99E-04	+/-	1.85E-05
	33	413.70	1.92E+02	+/- 2.97E+00	1.43E+00	2.86E-04	+/-	1.90E-05
	34	446.69	8.16E-01	+/- 4.18E-01	1.41E+00	2.68E-04	+/-	1.91E-05
	35	452.14	2.13E+01	+/- 7.21E-01	1.41E+00	2.65E-04	+/-	1.91E-05
	36	482.36	4.37E-01	+/- 2.38E-01	1.40E+00	2.50E-04	+/-	1.87E-05
	37	598.37	3.31E-01	+/- 1.34E-01	1.35E+00	2.07E-04	+/-	1.46E-05
	38	619.84	2.17E+00	+/- 2.53E-01	1.34E+00	2.01E-04	+/-	1.37E-05
	39	646.76	1.32E+00	+/- 1.92E-01	1.34E+00	1.94E-04	+/-	1.27E-05
M	40	659.52	7.75E-01	+/- 1.22E-01	1.33E+00	1.91E-04	+/-	1.22E-05
m	41	663.17	8.88E+00	+/- 5.20E-01	1.33E+00	1.90E-04	+/-	1.20E-05
	42	689.46	9.11E-01	+/- 1.66E-01	1.32E+00	1.84E-04	+/-	1.11E-05

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
43	704.53	4.81E-01 +/- 1.23E-01	1.32E+00	1.80E-04 +/- 1.06E-05
44	722.01	4.75E+00 +/- 2.73E-01	1.31E+00	1.77E-04 +/- 1.01E-05
45	756.47	5.76E-01 +/- 9.55E-02	1.31E+00	1.70E-04 +/- 9.14E-06
46	770.21	1.25E+00 +/- 1.57E-01	1.30E+00	1.67E-04 +/- 8.81E-06
47	1408.01	3.49E-02 +/- 2.02E-02	1.21E+00	1.00E-04 +/- 6.78E-06
48	2236.00	1.00E+02 +/- 1.69E+00	1.17E+00	5.76E-05 +/- 3.29E-05
49	2295.21	1.58E-01 +/- 6.22E-02	1.17E+00	5.53E-05 +/- 3.45E-05

Segment: 6 Detector: DET01 (# 1) Position: 6

Elapsed Live Time: 84.23 sec Elapsed Real Time: 115.00 sec

Analysis Warnings:
Minimum transmission used.

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.005 +/- 0.0025
SE-75	264.65	0.000 +/- 0.0000	0.208 +/- 0.0060
SE-75	279.53	0.000 +/- 0.0000	0.220 +/- 0.0092
SE-75	400.65	0.000 +/- 0.0000	0.342 +/- 0.0128

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
M	1	32.35	2.67E+01 +/- 8.96E-01	4.10E+00	5.22E-07 +/- 3.23E-06
m	2	34.52	1.61E+01 +/- 7.42E-01	4.10E+00	1.04E-06 +/- 5.71E-06
	3	50.11	1.53E+01 +/- 2.17E+00	4.10E+00	2.19E-05 +/- 5.64E-05
	4	60.14	9.97E+02 +/- 1.36E+01	4.10E+00	6.06E-05 +/- 9.93E-05
	5	99.32	3.54E+02 +/- 6.46E+00	4.10E+00	3.06E-04 +/- 7.51E-05
	6	111.66	7.84E+01 +/- 3.21E+00	4.10E+00	3.68E-04 +/- 4.00E-05
	7	116.29	3.60E+01 +/- 4.25E+00	4.10E+00	3.88E-04 +/- 3.03E-05
M	8	125.90	4.85E+01 +/- 1.33E+00	4.10E+00	4.21E-04 +/- 2.46E-05
m	9	129.94	3.31E+02 +/- 5.39E+00	4.10E+00	4.33E-04 +/- 2.80E-05
	10	148.57	3.80E+01 +/- 2.12E+00	3.12E+00	4.69E-04 +/- 4.84E-05
	11	165.27	5.15E+00 +/- 1.37E+00	2.64E+00	4.83E-04 +/- 5.76E-05
	12	172.09	1.59E+01 +/- 2.08E+00	2.51E+00	4.85E-04 +/- 5.88E-05
	13	179.77	8.00E+00 +/- 1.78E+00	2.39E+00	4.85E-04 +/- 5.88E-05
	14	189.87	1.10E+01 +/- 1.77E+00	2.26E+00	4.82E-04 +/- 5.72E-05
	15	196.28	1.44E+01 +/- 1.56E+00	2.19E+00	4.80E-04 +/- 5.54E-05

	16	208.65	1.95E+02	+/- 3.68E+00	2.07E+00	4.72E-04	+/-	5.09E-05
	17	222.18	1.60E+00	+/- 8.07E-01	1.97E+00	4.62E-04	+/-	4.52E-05
	18	238.54	1.63E+00	+/- 9.08E-01	1.86E+00	4.49E-04	+/-	3.80E-05
	19	249.47	1.88E+00	+/- 1.01E+00	1.79E+00	4.39E-04	+/-	3.35E-05
	20	256.05	1.14E+01	+/- 1.17E+00	1.76E+00	4.33E-04	+/-	3.09E-05
M	21	264.64	4.11E+00	+/- 5.36E-01	1.71E+00	4.25E-04	+/-	2.79E-05
m	22	268.16	1.10E+01	+/- 9.10E-01	1.71E+00	4.22E-04	+/-	2.67E-05
	23	298.14	4.70E+00	+/- 9.78E-01	1.64E+00	3.94E-04	+/-	1.97E-05
	24	311.90	1.01E+01	+/- 1.29E+00	1.61E+00	3.82E-04	+/-	1.81E-05
M	25	321.66	8.40E+00	+/- 7.60E-01	1.59E+00	3.74E-04	+/-	1.75E-05
m	26	324.11	1.11E+01	+/- 8.31E-01	1.59E+00	3.72E-04	+/-	1.74E-05
M	27	333.39	8.40E+01	+/- 1.93E+00	1.57E+00	3.65E-04	+/-	1.73E-05
m	28	336.32	2.80E+01	+/- 8.97E-01	1.57E+00	3.62E-04	+/-	1.73E-05
M	29	342.14	9.55E+00	+/- 5.10E-01	1.56E+00	3.58E-04	+/-	1.74E-05
m	30	345.66	7.78E+01	+/- 1.85E+00	1.55E+00	3.55E-04	+/-	1.74E-05
	31	368.94	2.45E+00	+/- 1.52E+00	1.51E+00	3.38E-04	+/-	1.82E-05
	32	375.72	1.42E+02	+/- 2.88E+00	1.50E+00	3.34E-04	+/-	1.84E-05
M	33	380.87	3.36E+01	+/- 1.06E+00	1.49E+00	3.30E-04	+/-	1.86E-05
m	34	383.45	3.17E+01	+/- 9.89E-01	1.49E+00	3.28E-04	+/-	1.87E-05
	35	393.58	7.12E+01	+/- 1.49E+00	1.47E+00	3.22E-04	+/-	1.90E-05
	36	413.70	1.91E+02	+/- 2.94E+00	1.46E+00	3.09E-04	+/-	1.95E-05
	37	423.25	1.05E+01	+/- 5.84E-01	1.45E+00	3.04E-04	+/-	1.96E-05
	38	446.45	1.17E+00	+/- 4.88E-01	1.44E+00	2.91E-04	+/-	1.97E-05
	39	452.14	2.25E+01	+/- 7.56E-01	1.44E+00	2.88E-04	+/-	1.97E-05
	40	512.70	4.23E-01	+/- 2.16E-01	1.41E+00	2.60E-04	+/-	1.85E-05
	41	619.55	1.92E+00	+/- 2.61E-01	1.37E+00	2.22E-04	+/-	1.43E-05
	42	646.67	1.15E+00	+/- 1.97E-01	1.36E+00	2.15E-04	+/-	1.32E-05

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
M	43	659.53	7.89E-01 +/- 1.16E-01	1.35E+00	2.11E-04 +/- 1.27E-05
m	44	663.18	1.00E+01 +/- 5.51E-01	1.35E+00	2.10E-04 +/- 1.26E-05
	45	689.40	7.46E-01 +/- 1.74E-01	1.34E+00	2.03E-04 +/- 1.16E-05
	46	704.61	2.74E-01 +/- 1.23E-01	1.34E+00	2.00E-04 +/- 1.11E-05
	47	722.01	4.35E+00 +/- 2.74E-01	1.34E+00	1.95E-04 +/- 1.05E-05
	48	738.02	2.89E-01 +/- 9.03E-02	1.33E+00	1.92E-04 +/- 1.00E-05
	49	756.86	5.75E-01 +/- 1.09E-01	1.33E+00	1.88E-04 +/- 9.53E-06
	50	770.16	1.09E+00 +/- 1.53E-01	1.32E+00	1.85E-04 +/- 9.19E-06
	51	964.13	8.24E-02 +/- 4.17E-02	1.28E+00	1.51E-04 +/- 6.52E-06
	52	1001.03	8.83E-02 +/- 4.65E-02	1.27E+00	1.45E-04 +/- 6.25E-06
	53	1085.91	4.23E-02 +/- 3.11E-02	1.26E+00	1.34E-04 +/- 5.68E-06
	54	2236.00	1.00E+02 +/- 1.70E+00	1.18E+00	4.34E-05 +/- 2.42E-05

Segment: 7 Detector: DET01 (# 1) Position: 7

Elapsed Live Time: 95.69 sec Elapsed Real Time: 115.00 sec

Analysis Warnings:
Some transmission peaks rejected.

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.000 +/- 0.0000
SE-75	264.65	0.000 +/- 0.0000	0.304 +/- 0.0066
SE-75	279.53	0.000 +/- 0.0000	0.306 +/- 0.0090
SE-75	400.65	0.000 +/- 0.0000	0.388 +/- 0.0129

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.96	8.82E+00 +/- 6.29E-01	2.41E+00	4.70E-09 +/- 2.70E-08
	2	50.03	7.72E+00 +/- 1.43E+00	1.93E+00	2.87E-06 +/- 6.75E-06
	3	60.15	6.61E+02 +/- 8.81E+00	1.84E+00	1.60E-05 +/- 2.38E-05
	4	99.36	2.14E+02 +/- 4.23E+00	1.69E+00	2.43E-04 +/- 5.52E-05
	5	111.68	4.26E+01 +/- 2.31E+00	1.67E+00	3.35E-04 +/- 3.49E-05
	6	116.24	2.32E+01 +/- 3.07E+00	1.66E+00	3.66E-04 +/- 2.83E-05
M	7	125.93	2.87E+01 +/- 9.39E-01	1.65E+00	4.24E-04 +/- 2.46E-05
m	8	129.97	1.94E+02 +/- 3.38E+00	1.64E+00	4.45E-04 +/- 2.77E-05
	9	148.57	2.20E+01 +/- 1.55E+00	1.62E+00	5.16E-04 +/- 4.85E-05
	10	172.01	7.32E+00 +/- 1.47E+00	1.60E+00	5.55E-04 +/- 6.09E-05

	11	179.78	5.19E+00	+/- 9.28E-01	1.59E+00	5.58E-04	+/-	6.12E-05
	12	190.09	4.68E+00	+/- 1.31E+00	1.58E+00	5.58E-04	+/-	5.97E-05
	13	196.47	5.91E+00	+/- 1.23E+00	1.57E+00	5.56E-04	+/-	5.79E-05
	14	208.67	1.09E+02	+/- 2.35E+00	1.56E+00	5.47E-04	+/-	5.32E-05
	15	244.70	1.59E+00	+/- 7.69E-01	1.53E+00	5.05E-04	+/-	3.65E-05
	16	256.05	6.52E+00	+/- 9.10E-01	1.53E+00	4.90E-04	+/-	3.18E-05
M	17	264.88	1.74E+00	+/- 3.55E-01	1.52E+00	4.78E-04	+/-	2.85E-05
m	18	268.28	5.04E+00	+/- 6.12E-01	1.52E+00	4.73E-04	+/-	2.74E-05
	19	298.14	3.66E+00	+/- 8.88E-01	1.50E+00	4.34E-04	+/-	2.02E-05
	20	311.90	3.97E+00	+/- 7.31E-01	1.48E+00	4.17E-04	+/-	1.86E-05
M	21	321.69	5.01E+00	+/- 5.45E-01	1.47E+00	4.05E-04	+/-	1.79E-05
m	22	324.18	6.78E+00	+/- 6.13E-01	1.47E+00	4.02E-04	+/-	1.78E-05
M	23	333.42	4.67E+01	+/- 1.27E+00	1.46E+00	3.91E-04	+/-	1.76E-05
m	24	336.37	1.58E+01	+/- 6.24E-01	1.46E+00	3.88E-04	+/-	1.76E-05
M	25	342.19	5.74E+00	+/- 3.65E-01	1.45E+00	3.82E-04	+/-	1.76E-05
m	26	345.69	4.27E+01	+/- 1.22E+00	1.45E+00	3.78E-04	+/-	1.76E-05
	27	369.00	6.00E+00	+/- 1.01E+00	1.43E+00	3.55E-04	+/-	1.81E-05
	28	375.75	7.76E+01	+/- 1.83E+00	1.42E+00	3.48E-04	+/-	1.82E-05
M	29	380.89	1.90E+01	+/- 7.22E-01	1.42E+00	3.44E-04	+/-	1.83E-05
m	30	383.48	1.78E+01	+/- 6.66E-01	1.42E+00	3.41E-04	+/-	1.84E-05
	31	393.58	3.92E+01	+/- 9.49E-01	1.41E+00	3.33E-04	+/-	1.86E-05
	32	413.70	1.04E+02	+/- 1.71E+00	1.40E+00	3.17E-04	+/-	1.88E-05
	33	423.27	5.15E+00	+/- 4.29E-01	1.39E+00	3.10E-04	+/-	1.88E-05
	34	452.22	1.23E+01	+/- 4.75E-01	1.38E+00	2.90E-04	+/-	1.86E-05
	35	482.04	3.33E-01	+/- 1.43E-01	1.37E+00	2.72E-04	+/-	1.80E-05
	36	619.91	1.21E+00	+/- 1.60E-01	1.32E+00	2.15E-04	+/-	1.32E-05
	37	646.56	6.44E-01	+/- 1.32E-01	1.31E+00	2.07E-04	+/-	1.23E-05
M	38	659.90	5.19E-01	+/- 9.02E-02	1.31E+00	2.04E-04	+/-	1.18E-05
m	39	663.22	5.59E+00	+/- 3.84E-01	1.31E+00	2.03E-04	+/-	1.17E-05
	40	689.61	5.70E-01	+/- 1.30E-01	1.30E+00	1.96E-04	+/-	1.09E-05
	41	704.42	3.37E-01	+/- 9.14E-02	1.30E+00	1.93E-04	+/-	1.05E-05
M	42	718.13	1.61E-01	+/- 4.85E-02	1.29E+00	1.90E-04	+/-	1.01E-05

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)
m	43	722.78	2.79E+00 +/- 2.53E-01	1.29E+00	1.89E-04 +/- 9.97E-06
	44	769.93	8.26E-01 +/- 1.13E-01	1.28E+00	1.79E-04 +/- 8.90E-06
	45	2236.00	1.00E+02 +/- 1.61E+00	1.16E+00	5.07E-05 +/- 2.69E-05
	46	2295.87	1.13E-01 +/- 5.09E-02	1.16E+00	4.77E-05 +/- 2.77E-05

Segment: 8 Detector: DET01 (# 1) Position: 8

Elapsed Live Time: 108.15 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.351 +/- 0.0174
SE-75	264.65	0.000 +/- 0.0000	0.517 +/- 0.0094
SE-75	279.53	0.000 +/- 0.0000	0.533 +/- 0.0114
SE-75	400.65	0.000 +/- 0.0000	0.576 +/- 0.0144

PEAK ANALYSIS RESULTS

	Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
	1	31.95	3.32E+00 +/- 3.66E-01	1.98E+00	7.52E-06 +/- 7.34E-06
	2	49.87	4.46E+00 +/- 1.12E+00	1.65E+00	5.87E-05 +/- 2.91E-05
	3	60.16	1.97E+02 +/- 2.92E+00	1.59E+00	1.10E-04 +/- 3.84E-05
	4	99.37	5.96E+01 +/- 1.94E+00	1.49E+00	3.25E-04 +/- 3.31E-05
	5	111.71	1.11E+01 +/- 1.30E+00	1.47E+00	3.75E-04 +/- 2.72E-05
	6	115.99	8.81E+00 +/- 1.59E+00	1.47E+00	3.90E-04 +/- 2.56E-05
M	7	125.95	9.01E+00 +/- 5.08E-01	1.46E+00	4.19E-04 +/- 2.31E-05
m	8	130.00	5.64E+01 +/- 1.43E+00	1.46E+00	4.29E-04 +/- 2.26E-05
	9	148.57	5.74E+00 +/- 7.91E-01	1.43E+00	4.62E-04 +/- 2.28E-05
	10	161.54	3.17E+00 +/- 8.61E-01	1.40E+00	4.75E-04 +/- 2.41E-05
	11	172.09	1.79E+00 +/- 8.19E-01	1.39E+00	4.80E-04 +/- 2.51E-05
	12	179.68	1.83E+00 +/- 7.90E-01	1.38E+00	4.81E-04 +/- 2.56E-05
	13	196.46	1.93E+00 +/- 7.18E-01	1.35E+00	4.79E-04 +/- 2.62E-05
	14	204.22	1.02E+01 +/- 8.22E-01	1.34E+00	4.76E-04 +/- 2.61E-05
	15	208.69	2.12E+01 +/- 1.16E+00	1.34E+00	4.74E-04 +/- 2.60E-05
	16	256.25	2.01E+00 +/- 5.16E-01	1.28E+00	4.39E-04 +/- 2.28E-05
M	17	264.43	7.63E-01 +/- 2.48E-01	1.27E+00	4.32E-04 +/- 2.21E-05
m	18	268.10	1.94E+00 +/- 3.99E-01	1.27E+00	4.29E-04 +/- 2.17E-05
	19	298.21	1.05E+00 +/- 5.89E-01	1.25E+00	4.01E-04 +/- 1.90E-05
	20	311.90	1.85E+00 +/- 5.08E-01	1.25E+00	3.88E-04 +/- 1.78E-05
M	21	321.46	1.48E+00 +/- 3.04E-01	1.25E+00	3.80E-04 +/- 1.71E-05

m	22	324.24	1.71E+00	+/- 3.16E-01	1.24E+00	3.77E-04	+/-	1.69E-05
M	23	333.47	1.33E+01	+/- 6.16E-01	1.24E+00	3.69E-04	+/-	1.62E-05
m	24	336.49	4.57E+00	+/- 3.07E-01	1.24E+00	3.66E-04	+/-	1.60E-05
	25	345.71	4.99E+00	+/- 8.81E-01	1.24E+00	3.59E-04	+/-	1.54E-05
	26	369.07	1.66E+00	+/- 5.41E-01	1.23E+00	3.39E-04	+/-	1.41E-05
	27	375.80	2.13E+01	+/- 8.06E-01	1.23E+00	3.34E-04	+/-	1.38E-05
M	28	380.92	4.53E+00	+/- 3.45E-01	1.23E+00	3.30E-04	+/-	1.36E-05
m	29	383.52	4.16E+00	+/- 3.13E-01	1.23E+00	3.28E-04	+/-	1.35E-05
	30	393.61	1.07E+01	+/- 4.41E-01	1.23E+00	3.21E-04	+/-	1.31E-05
	31	413.70	2.77E+01	+/- 6.40E-01	1.22E+00	3.06E-04	+/-	1.25E-05
	32	423.33	1.90E+00	+/- 2.48E-01	1.22E+00	3.00E-04	+/-	1.22E-05
	33	452.28	3.35E+00	+/- 2.25E-01	1.21E+00	2.82E-04	+/-	1.16E-05
	34	462.27	1.30E-01	+/- 8.60E-02	1.21E+00	2.76E-04	+/-	1.15E-05
	35	619.98	3.09E-01	+/- 8.03E-02	1.18E+00	2.06E-04	+/-	9.86E-06
	36	646.69	1.13E-01	+/- 6.62E-02	1.18E+00	1.98E-04	+/-	9.58E-06
	37	653.15	3.21E-01	+/- 8.80E-02	1.17E+00	1.96E-04	+/-	9.51E-06
	38	662.42	1.38E+00	+/- 1.41E-01	1.17E+00	1.93E-04	+/-	9.41E-06
	39	689.04	1.46E-01	+/- 6.01E-02	1.17E+00	1.86E-04	+/-	9.11E-06
	40	722.01	8.25E-01	+/- 9.79E-02	1.16E+00	1.78E-04	+/-	8.71E-06
	41	2225.62	8.31E-02	+/- 2.77E-02	1.09E+00	1.18E-04	+/-	2.88E-05
	42	2236.00	1.00E+02	+/- 1.54E+00	1.09E+00	1.19E-04	+/-	2.92E-05

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Corrected Peak Count Rate (CpS)

Segment: 9 Detector: DET01 (# 1) Position: 9

Elapsed Live Time: 112.67 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.367 +/- 0.0157
SE-75	264.65	0.000 +/- 0.0000	0.508 +/- 0.0091
SE-75	279.53	0.000 +/- 0.0000	0.521 +/- 0.0108
SE-75	400.65	0.000 +/- 0.0000	0.576 +/- 0.0138

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.13	1.70E+00 +/- 2.48E-01	1.92E+00	6.51E-09 +/- 3.90E-08
2	60.13	2.86E+01 +/- 8.62E-01	1.56E+00	1.64E-05 +/- 2.57E-05
3	67.88	1.50E+00 +/- 5.72E-01	1.53E+00	3.94E-05 +/- 4.37E-05
4	99.27	3.73E+00 +/- 9.11E-01	1.47E+00	2.35E-04 +/- 5.59E-05
5	111.82	2.30E+00 +/- 7.02E-01	1.45E+00	3.23E-04 +/- 3.44E-05
6	129.29	2.44E+00 +/- 5.26E-01	1.43E+00	4.21E-04 +/- 2.66E-05
7	208.82	6.97E-01 +/- 4.08E-01	1.33E+00	5.10E-04 +/- 5.14E-05
8	375.65	5.41E-01 +/- 1.76E-01	1.23E+00	3.18E-04 +/- 1.78E-05
9	393.61	3.67E-01 +/- 1.08E-01	1.23E+00	3.03E-04 +/- 1.81E-05
10	413.70	4.38E-01 +/- 1.01E-01	1.22E+00	2.88E-04 +/- 1.83E-05
11	867.39	4.79E-02 +/- 2.73E-02	1.15E+00	1.49E-04 +/- 7.00E-06
12	2236.00	1.00E+02 +/- 1.50E+00	1.09E+00	6.12E-05 +/- 3.31E-05

Segment: 10 Detector: DET01 (# 1) Position: 10

Elapsed Live Time: 113.25 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.297 +/- 0.0136
SE-75	264.65	0.000 +/- 0.0000	0.480 +/- 0.0043
SE-75	279.53	0.000 +/- 0.0000	0.493 +/- 0.0068
SE-75	400.65	0.000 +/- 0.0000	0.536 +/- 0.0100

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.24	1.34E+00 +/- 2.31E-01	2.15E+00	1.71E-05 +/- 1.68E-05
2	50.23	2.41E+00 +/- 4.97E-01	1.77E+00	8.50E-05 +/- 4.24E-05
3	60.07	1.30E+01 +/- 6.08E-01	1.70E+00	1.37E-04 +/- 4.88E-05
4	67.97	1.08E+00 +/- 7.32E-01	1.66E+00	1.80E-04 +/- 4.96E-05
5	95.38	4.48E+00 +/- 9.43E-01	1.59E+00	3.14E-04 +/- 3.65E-05
6	185.71	7.35E-01 +/- 5.40E-01	1.42E+00	4.61E-04 +/- 2.50E-05
7	400.66	1.12E-01 +/- 6.62E-02	1.26E+00	3.24E-04 +/- 1.32E-05
8	722.01	5.47E-02 +/- 3.39E-02	1.19E+00	1.89E-04 +/- 9.55E-06
9	1001.03	8.79E-03 +/- 3.65E-02	1.15E+00	1.41E-04 +/- 5.67E-06
10	1112.12	1.76E-02 +/- 1.24E-02	1.15E+00	1.29E-04 +/- 4.78E-06
11	2236.00	1.00E+02 +/- 1.51E+00	1.10E+00	9.04E-05 +/- 2.29E-05

Segment: 11 Detector: DET01 (# 1) Position: 11

Elapsed Live Time: 113.56 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.198 +/- 0.0113
SE-75	264.65	0.000 +/- 0.0000	0.312 +/- 0.0034
SE-75	279.53	0.000 +/- 0.0000	0.315 +/- 0.0053
SE-75	400.65	0.000 +/- 0.0000	0.358 +/- 0.0079

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.08	1.24E+00 +/- 2.14E-01	2.64E+00	1.33E-03 +/- 8.55E-03
2	59.83	5.33E+00 +/- 4.77E-01	1.98E+00	5.05E-04 +/- 8.63E-04
3	99.32	9.06E-01 +/- 3.79E-01	1.81E+00	4.09E-04 +/- 1.03E-04
4	121.11	1.58E+00 +/- 5.45E-01	1.76E+00	4.01E-04 +/- 2.46E-05
5	135.30	6.04E-01 +/- 3.80E-01	1.74E+00	3.99E-04 +/- 3.14E-05
6	185.71	6.67E-01 +/- 4.06E-01	1.63E+00	3.93E-04 +/- 4.88E-05
7	443.98	4.61E-02 +/- 3.37E-02	1.42E+00	2.95E-04 +/- 2.00E-05
8	722.01	2.96E-02 +/- 2.55E-02	1.32E+00	1.97E-04 +/- 1.08E-05
9	1085.91	4.98E-02 +/- 3.47E-02	1.25E+00	1.27E-04 +/- 5.57E-06
10	2236.00	1.00E+02 +/- 1.50E+00	1.18E+00	5.79E-05 +/- 3.30E-05

Segment: 12 Detector: DET01 (# 1) Position: 12

Elapsed Live Time: 113.81 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.074 +/- 0.0069
SE-75	264.65	0.000 +/- 0.0000	0.140 +/- 0.0031
SE-75	279.53	0.000 +/- 0.0000	0.148 +/- 0.0041
SE-75	400.65	0.000 +/- 0.0000	0.184 +/- 0.0061

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.23	5.25E-01 +/- 1.45E-01	3.94E+00	2.66E-09 +/- 1.62E-08
2	49.93	1.28E+00 +/- 3.88E-01	2.95E+00	2.03E-06 +/- 5.17E-06
3	60.26	2.93E+00 +/- 3.88E-01	2.74E+00	1.32E-05 +/- 2.10E-05
4	778.90	1.97E-02 +/- 1.70E-02	1.53E+00	1.60E-04 +/- 8.31E-06
5	1001.03	3.50E-02 +/- 1.75E-02	1.45E+00	1.35E-04 +/- 6.07E-06
6	2236.00	1.00E+02 +/- 1.50E+00	1.30E+00	6.48E-05 +/- 3.54E-05

Segment: 13 Detector: DET01 (# 1) Position: 13

Elapsed Live Time: 114.00 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.318 +/- 0.0108
SE-75	264.65	0.000 +/- 0.0000	0.428 +/- 0.0040
SE-75	279.53	0.000 +/- 0.0000	0.426 +/- 0.0062
SE-75	400.65	0.000 +/- 0.0000	0.469 +/- 0.0092

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.29	9.61E-01 +/- 1.54E-01	2.07E+00	1.97E-08 +/- 1.27E-07
2	49.67	1.82E+00 +/- 3.18E-01	1.73E+00	4.66E-06 +/- 1.27E-05
3	60.07	3.59E-01 +/- 2.12E-01	1.65E+00	2.26E-05 +/- 3.85E-05
4	400.66	9.02E-02 +/- 4.29E-02	1.32E+00	2.98E-04 +/- 1.92E-05
5	722.01	1.73E-02 +/- 1.22E-02	1.23E+00	1.80E-04 +/- 1.01E-05
6	2236.00	1.00E+02 +/- 1.49E+00	1.13E+00	5.36E-05 +/- 3.03E-05

Segment: 14 Detector: DET01 (# 1) Position: 14

Elapsed Live Time: 114.15 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.783 +/- 0.0218
SE-75	264.65	0.000 +/- 0.0000	0.861 +/- 0.0146
SE-75	279.53	0.000 +/- 0.0000	0.871 +/- 0.0163
SE-75	400.65	0.000 +/- 0.0000	0.868 +/- 0.0188

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	32.54	6.38E-01 +/- 1.34E-01	1.19E+00	3.90E-06 +/- 2.28E-05
2	50.00	2.07E+00 +/- 2.80E-01	1.13E+00	4.61E-05 +/- 1.14E-04
3	60.22	2.39E-01 +/- 1.43E-01	1.12E+00	9.62E-05 +/- 1.50E-04
4	662.42	4.41E-02 +/- 2.92E-02	1.04E+00	1.96E-04 +/- 1.14E-05
5	2236.00	1.00E+02 +/- 1.50E+00	1.02E+00	7.64E-05 +/- 4.15E-05

Segment: 15 Detector: DET01 (# 1) Position: 15

Elapsed Live Time: 114.20 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.843 +/- 0.0229
SE-75	264.65	0.000 +/- 0.0000	0.884 +/- 0.0150
SE-75	279.53	0.000 +/- 0.0000	0.896 +/- 0.0168
SE-75	400.65	0.000 +/- 0.0000	0.895 +/- 0.0193

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	60.16	3.45E-01 +/- 1.81E-01	1.08E+00	1.23E-05 +/- 2.02E-05
2	300.10	1.10E-01 +/- 7.56E-02	1.04E+00	3.60E-04 +/- 1.79E-05
3	400.66	6.55E-02 +/- 4.50E-02	1.04E+00	2.70E-04 +/- 1.63E-05
4	778.90	1.72E-02 +/- 1.22E-02	1.03E+00	1.56E-04 +/- 8.00E-06
5	1408.01	1.72E-02 +/- 1.22E-02	1.02E+00	9.07E-05 +/- 6.42E-06
6	2236.00	1.00E+02 +/- 1.49E+00	1.02E+00	3.18E-05 +/- 1.80E-05

Segment: 16 Detector: DET01 (# 1) Position: 16

Elapsed Live Time: 114.21 sec Elapsed Real Time: 115.00 sec

TRANSMISSION RESULTS

Nuclide	Energy	Container Transmission	Sample Transmission
SE-75	136.00	0.000 +/- 0.0000	0.721 +/- 0.0196
SE-75	264.65	0.000 +/- 0.0000	0.847 +/- 0.0145
SE-75	279.53	0.000 +/- 0.0000	0.860 +/- 0.0162
SE-75	400.65	0.000 +/- 0.0000	0.855 +/- 0.0187

PEAK ANALYSIS RESULTS

Peak No.	Energy (keV)	Net Peak Count Rate (CpS)	Correction Factor	Original Efficiency
1	413.70	1.15E-01 +/- 4.34E-02	1.06E+00	1.79E-04 +/- 8.85E-06
2	964.13	2.61E-02 +/- 1.51E-02	1.04E+00	8.21E-05 +/- 4.35E-06
3	2236.00	1.00E+02 +/- 1.50E+00	1.03E+00	6.28E-05 +/- 1.87E-05

Summed Spectrum

Peak Locate Report

Sample ID: S100-2669
Peak Locate Performed on: 4-09-08 7:55:23 AM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192
Peak Search Sensitivity: 5.00

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
1	64.74	0.1093	32.03	36.63
2	100.65	0.1483	49.99	18.24
3	120.96	0.0321	60.14	423.17
4	199.36	0.0419	99.34	230.37
5	224.02	0.0609	111.68	115.16
6	233.24	0.0691	116.29	45.85
7	260.58	0.0421	129.96	228.78
8	290.15	0.1357	144.74	27.60
9	299.17	0.0863	149.25	62.23
10	344.83	0.1514	172.08	20.12
11	360.28	0.1707	179.81	14.23
12	380.44	0.1505	189.89	17.49
13	393.32	0.1305	196.32	24.78
14	418.00	0.0437	208.67	218.72
15	444.76	0.2782	222.05	5.75
16	477.88	0.2501	238.61	6.98
17	512.84	0.1178	256.09	30.16
18	529.94	0.2033	264.70	11.09
19	537.05	0.1292	268.19	26.19
20	596.94	0.1492	298.14	19.68
21	625.73	0.1083	312.53	33.65
22	643.43	0.1780	321.70	14.13
23	649.37	0.1627	324.18	13.62
24	667.41	0.0597	333.41	106.61
25	673.87	0.0975	336.35	49.56
26	684.56	0.1422	342.13	25.23
27	692.03	0.0596	345.69	115.66
28	738.57	0.0931	368.95	37.95
29	752.14	0.0448	375.73	192.64
30	762.09	0.0807	380.89	69.07
31	767.89	0.0884	383.46	58.91
32	787.85	0.0607	393.59	102.70
33	829.48	0.0443	414.40	176.17
34	847.21	0.0883	423.27	49.23
35	893.65	0.2023	446.49	9.41
36	905.04	0.0784	452.18	63.58

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
37	965.09	0.2323	482.21	7.44
38	1196.94	0.2580	598.14	5.26
39	1240.24	0.1532	619.79	14.72
40	1294.06	0.1553	646.69	15.77
41	1319.30	0.2747	659.68	6.91
42	1327.15	0.0943	663.21	40.84
43	1379.70	0.1959	689.52	9.22
44	1446.25	0.1117	722.79	28.35
45	1514.27	0.2274	756.80	6.84
46	1540.81	0.1794	770.07	10.53
47	2349.38	0.2508	1174.36	5.29
48	2668.01	0.2252	1333.67	6.26
49	2925.15	0.2364	1462.24	5.46
50	4451.92	0.2217	2225.63	5.65
51	4473.30	0.0270	2236.32	397.86

Errors quoted at 1.000 sigma

Summed Spectrum

Peak Analysis Report

Sample ID: S100-2669
Peak Analysis Performed on: 4-09-08 7:55:23 AM
Peak Analysis From Channel: 40
Peak Analysis To Channel: 8192

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	1	60-	71	64.74	32.03	1.12E+04	215.41	1.29E+04
	2	94-	103	100.65	49.99	5.31E+03	339.95	4.73E+04
	3	114-	127	120.96	60.14	3.27E+05	716.48	6.80E+04
	4	194-	203	199.36	99.34	1.11E+05	777.15	2.19E+05
	5	217-	227	224.02	111.68	2.31E+04	544.38	1.12E+05
	6	227-	240	233.24	116.29	1.06E+04	730.09	1.78E+05
	7	256-	267	260.58	129.96	8.43E+04	505.21	6.66E+04
	8	283-	293	290.15	144.74	6.05E+02	338.28	4.71E+04
	9	293-	306	299.17	149.25	1.01E+04	424.51	6.13E+04
	10	338-	348	344.83	172.08	5.08E+03	312.33	3.88E+04
	11	355-	367	360.28	179.81	2.51E+03	341.44	4.33E+04
	12	375-	387	380.44	189.89	3.02E+03	334.18	4.13E+04
	13	389-	400	393.32	196.32	3.89E+03	307.18	3.60E+04
	14	413-	425	418.00	208.67	5.86E+04	455.51	5.41E+04
	15	441-	448	444.76	222.05	4.75E+02	182.54	1.63E+04
	16	475-	482	477.88	238.61	6.08E+02	167.84	1.37E+04
	17	509-	520	512.84	256.09	3.62E+03	217.73	1.73E+04
M	18	526-	544	530.07	264.70	1.11E+03	96.57	1.10E+04
m	19	526-	544	537.06	268.19	2.94E+03	157.37	1.05E+04
	20	592-	604	596.94	298.14	2.01E+03	200.13	1.44E+04
	21	621-	630	625.73	312.53	3.26E+03	164.66	1.06E+04
M	22	638-	656	644.07	321.70	2.68E+03	138.02	1.21E+04
m	23	638-	656	649.04	324.18	3.44E+03	149.44	1.24E+04
M	24	661-	681	667.49	333.41	2.59E+04	266.03	9.24E+03
m	25	661-	681	673.37	336.35	8.76E+03	139.01	1.09E+04
M	26	681-	699	684.93	342.13	2.78E+03	84.32	6.35E+03
m	27	681-	699	692.06	345.69	2.36E+04	258.23	5.82E+03
	28	730-	746	738.57	368.95	1.31E+03	254.68	1.92E+04
	29	746-	759	752.14	375.73	4.38E+04	360.18	2.84E+04
M	30	759-	775	762.45	380.89	1.01E+04	157.01	6.05E+03
m	31	759-	775	767.60	383.46	9.62E+03	147.04	4.99E+03
	32	780-	795	787.85	393.59	2.16E+04	191.97	5.08E+03
	33	821-	837	829.48	414.40	5.76E+04	264.53	3.95E+03
	34	843-	851	847.21	423.27	3.41E+03	92.62	2.39E+03
	35	885-	898	893.65	446.49	1.58E+02	68.05	1.62E+03
	36	898-	912	905.04	452.18	6.73E+03	108.37	1.75E+03
	37	962-	970	965.09	482.21	1.31E+02	36.87	5.70E+02

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	38	1191	1202	1196.94	598.14	1.05E+02	29.89	3.15E+02
	39	1232	1245	1240.24	619.79	6.62E+02	40.13	3.43E+02
	40	1290	1298	1294.06	646.69	3.85E+02	31.07	2.69E+02
M	41	1315	1335	1320.02	659.68	2.20E+02	20.40	2.89E+02
m	42	1315	1335	1327.09	663.21	2.94E+03	85.51	2.29E+02
	43	1371	1387	1379.70	689.52	2.66E+02	32.04	2.43E+02
	44	1441	1454	1446.25	722.79	1.40E+03	45.25	2.39E+02
	45	1511	1522	1514.27	756.80	1.60E+02	18.87	7.39E+01
	46	1532	1549	1540.81	770.07	3.95E+02	29.00	1.37E+02
	47	2346	2358	2349.38	1174.36	5.85E+01	12.03	3.15E+01
	48	2661	2674	2668.01	1333.67	6.72E+01	12.98	3.68E+01
	49	2920	2930	2925.15	1462.24	4.70E+01	9.97	2.20E+01
	50	4445	4457	4451.92	2225.63	5.88E+01	8.20	3.16E+00
	51	4467	4483	4473.30	2236.32	1.74E+05	418.07	3.17E+02

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Summed Spectrum

Nuclide Identification Report

Sample ID: S100-2669
Nuclide Library Used: C:\WAS\NLIB\LLNL.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (uCi/)	Activity Uncertainty
Pulser	0.993	2236.00*	100.00	7.331E+02	2.002E+02
Np-237	0.739	300.10	6.63		
		311.90*	38.60	7.636E+00	3.927E-01
Pu-239	0.965	413.70*	0.00	4.322E+06	8.585E+04
Pu-239A	0.969	129.29*	0.01	1.228E+06	3.457E+04
Am-241	0.956	662.42*	0.00	1.218E+06	3.785E+04
Am-241D	0.958	722.01*	0.00	1.267E+06	4.339E+04
Pu-241	0.967	148.57*	0.00	4.420E+06	2.134E+05

* = Energy line found in the spectrum.
Energy Tolerance : 1.500 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 4-09-08 7:55:23 AM
Peak Locate From Channel: 40
Peak Locate To Channel: 8192

	Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
	1	32.03	1.0375E+02	1.94
	2	49.99	4.9158E+01	6.40
	3	60.14	3.0245E+03	0.34
	4	99.34	1.0271E+03	0.75
	5	111.68	2.1388E+02	2.37
	6	116.29	9.7956E+01	6.90
	8	144.74	5.6001E+00	55.87
	10	172.08	4.6992E+01	6.15
	11	179.81	2.3198E+01	13.62
	12	189.89	2.7914E+01	11.08
	13	196.32	3.5979E+01	7.90
	14	208.67	5.4180E+02	0.82
	15	222.05	4.3942E+00	38.42
	16	238.61	5.6222E+00	27.61
	17	256.09	3.3439E+01	6.03
M	18	264.70	1.0298E+01	8.68
m	19	268.19	2.7201E+01	5.36
	20	298.14	1.8582E+01	9.96
M	22	321.70	2.4805E+01	5.15
m	23	324.18	3.1821E+01	4.35
M	24	333.41	2.3923E+02	1.06
m	25	336.35	8.0996E+01	1.61
M	26	342.13	2.5688E+01	3.05
m	27	345.69	2.1822E+02	1.13
	28	368.95	1.2132E+01	19.42
	29	375.73	4.0493E+02	0.86
M	30	380.89	9.2997E+01	1.58
m	31	383.46	8.9022E+01	1.55
	32	393.59	2.0005E+02	0.93
	34	423.27	3.1505E+01	2.73
	35	446.49	1.4626E+00	43.04
	36	452.18	6.2271E+01	1.63
	37	482.21	1.2154E+00	28.06
	38	598.14	9.7009E-01	28.49
	39	619.79	6.1240E+00	6.07
	40	646.69	3.5632E+00	8.07
M	41	659.68	2.0384E+00	9.26
	43	689.52	2.4632E+00	12.03
	45	756.80	1.4808E+00	11.79
	46	770.07	3.6521E+00	7.35
	47	1174.36	5.4102E-01	20.57
	48	1333.67	6.2189E-01	19.30
	49	1462.24	4.3470E-01	21.21
	50	2225.63	5.4420E-01	13.93

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

Combined Segment NID

NID Results Combiner Mode: Sum Activities

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		8.14E+02	+/-	1.20E+02	3.67E-02	+/-	5.41E-03
SE-75	<	5.64E-01	+/-	3.80E-02	< 2.54E-05	+/-	1.71E-06
EU-152x	<	2.90E-01	+/-	1.97E-02	< 1.31E-05	+/-	8.89E-07
U-233		3.07E+03	+/-	1.95E+03	1.38E-01	+/-	8.77E-02
U-235		2.38E-01	+/-	1.14E-01	1.07E-05	+/-	5.12E-06
Np-237		8.96E+00	+/-	6.06E-01	4.04E-04	+/-	2.73E-05
Pu-238	<	5.26E+04	+/-	6.00E+03	< 2.37E+00	+/-	2.70E-01
U-238		3.94E+00	+/-	1.74E+00	1.77E-04	+/-	7.86E-05
Pu-239		5.31E+06	+/-	1.80E+05	2.39E+02	+/-	8.11E+00
Pu-239A		3.46E+06	+/-	1.39E+05	1.56E+02	+/-	6.25E+00
Am-241		1.42E+06	+/-	5.97E+04	6.41E+01	+/-	2.69E+00
Am-241D		1.50E+06	+/-	6.36E+04	6.75E+01	+/-	2.87E+00
Pu-241		9.96E+06	+/-	6.70E+05	4.49E+02	+/-	3.02E+01

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
U-233	3.19E-01	+/-	2.02E-01
U-235	1.10E-01	+/-	5.26E-02
Np-237	1.27E-02	+/-	8.60E-04
U-238	1.17E+01	+/-	5.20E+00
Pu-239	8.55E+01	+/-	2.90E+00
Pu-239A	5.57E+01	+/-	2.24E+00
Am-241	4.15E-01	+/-	1.74E-02
Pu-241	9.63E-02	+/-	6.48E-03

Summed Spectrum

Nuclide		Total Activity (uCi)			Concentration (uCi/g)		
Pulser		7.33E+02	+/-	2.00E+02	3.30E-02	+/-	9.02E-03
SE-75	<	1.21E+00	+/-	1.35E-02	< 5.45E-05	+/-	6.07E-07
EU-152x	<	5.68E-01	+/-	1.19E-02	< 2.56E-05	+/-	5.36E-07
U-233	<	7.03E+04	+/-	1.78E+03	< 3.17E+00	+/-	8.01E-02
U-235	<	1.67E+00	+/-	4.32E-02	< 7.51E-05	+/-	1.95E-06
Np-237		7.64E+00	+/-	3.93E-01	3.44E-04	+/-	1.77E-05
Pu-238	<	1.23E+05	+/-	2.89E+03	< 5.54E+00	+/-	1.30E-01
U-238	<	1.46E+01	+/-	2.41E-01	< 6.59E-04	+/-	1.08E-05
Pu-239		4.32E+06	+/-	8.59E+04	1.95E+02	+/-	3.87E+00
Pu-239A		1.23E+06	+/-	3.46E+04	5.53E+01	+/-	1.56E+00
Am-241		1.22E+06	+/-	3.79E+04	5.49E+01	+/-	1.70E+00
Am-241D		1.27E+06	+/-	4.34E+04	5.71E+01	+/-	1.95E+00
Pu-241		4.42E+06	+/-	2.13E+05	1.99E+02	+/-	9.61E+00

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
< = MDA

Nuclide	Mass (g)		
Np-237	1.08E-02	+/-	5.58E-04
Pu-239	6.96E+01	+/-	1.38E+00
Pu-239A	1.98E+01	+/-	5.57E-01
Am-241	3.56E-01	+/-	1.11E-02
Pu-241	4.27E-02	+/-	2.06E-03

Final Non-Uniformity Results

Source Longitudinal Ratio:	0.922	+/-	9.3677
Matrix Longitudinal Ratio:	0.666	+/-	0.0347
Source Vertical Ratio:	0.893	+/-	0.4481
Matrix Vertical Ratio:	0.847	+/-	0.0222

NUDS could not find the transmission peak in one radial segment.