

Table VI A1.2 (continued)

Category	D	Statements	Notes	#
Multiple-scattering corrections	D	DO NOT INCLUDE SELF-shielding or multiple-scattering corrections,	Calculate the cross section but do not include any self-shielding or multiple-scattering corrections.	251
		or		252
		NO SELF-SHIELDING AND multiple-scattering corrections		
		USE SELF SHIELDING Only, no scattering,	Only self-shielding is to be included; no single- or double-scattering (see Section III.D).	253
		or		254
		SELF SHIELD,		255
		or		
		INCLUDE ONLY SELF SHielding and not Multiple scattering		
		USE SINGLE SCATTERING plus self shielding,	Include self-shielding plus single-scattering corrections.	256
		or		257
		SINGLE	Include self-shielding, single-scattering, and double-scattering corrections (see Section III.D).	
		INCLUDE DOUBLE SCATTERing corrections,		258
		or		259
		USE MULTIPLE SCATTERing plus single scattering,		
		or		261
		DOUBLE,		260
		or		
		MULTIPLE		
		INFINITE SLAB,	Single-scattering correction does not include edge effects.	263
		or		262
		NO FINITE-SIZE CORRECTIONS to single scattering		
	D	FINITE SLAB,	Edge effects corrections are included for single scattering.	265
		or		264
		FINITE SIZE CORRECTIONS to single scattering		

Table VI A1.2 (continued)

Category	D	Statements	Notes	#
Multiple-scattering corrections (cont.)	D	MAKE NEW FILE WITH Edge effects	See Section III.D. This statement is ignored if “INFINITE SLAB” is specified. Be sure to rename and save the SAMMY.SSM file if you wish to reuse it.	266
		FILE WITH EDGE EFFECTs already exists	Use this option to conserve run time. Include the name of this file (which was generated by a previous SAMMY run) after the name of your DATA file.	267
		MAKE PLOT FILE OF Multiple scattering pieces	Store Y_0 , Y_1 , and Y_2 in file SAM53.DAT, to be read by program SAMCPR.	268 269
		NORMALIZE AS CROSS Section rather than yield,	See Section III.D.	270
		or CROSS SECTION	Note than normalization <i>must</i> be specified explicitly. SAMMY will abort if the INPut file does not specify which normalization is to be used.	271
		NORMALIZE AS YIELD Rather than cross section,		272
		or YIELD		273
		NORMALIZE AS (1-E)Sigma		274
		PRINT MULTIPLE SCATTering corrections	Create a table of E , Y_0 , Y_1 , Y_2 , and Y (energy plus components of the corrected yield) in file SAM012.DAT.	275
		PREPARE INPUT FOR Monte carlo simulation,	This is the initial SAMMY run to generate cross sections for use in Monte Carlo simulation of multiple-scattering effects.	276 277
		or MONTE CARLO		
		Y2 VALUES ARE TABULAted	When SAMMY’s calculation of double-plus scattering is inadequate, tabulated values for Y_2 , can be used. See Section III.D for information on creating an using tabulated values.	247

Table VI A1.2 (continued)

Category	D	Statements	Notes	#
Multiple-scattering corrections (cont.)	D	USE QUADRATIC INTERPoltion for y1	Quadratic interpolation is used to generate the Q-functions at specific values of the arguments	250
		USE LINEAR INTERPOLAtion for y1	Linear interpolation is used to generate the Q-functions at specific values of the arguments. This is neither as accurate nor as efficient as quadratic interpolation, but may be faster under certain conditions.	249
		DO NOT CALCULATE Y0	Used for debugging purposes only	248