

Table 1: Results and z-Scores for Crispbread Test Material

laboratory number	analyte			
	acrylamide assigned value 271 µg/kg			
	result µg/kg	internal standard used Y/N?	recovery % / applied Y/N?	z-score
001	190	Y	57% Y	-1.5
002	280.15	Y	N	0.2
003	207.7	Y	100	-1.2
004	279	Y	N	0.1
005	256.90	Y		-0.3
006	283	Y	79 N	0.2
007	294	y	n	0.4
008	245	Y	N	-0.5
009	275	Y		0.1
010	277.5	Y	N	0.1
011	205.48	Y	Y	-1.2
012	270	yes	no	0.0
013	574	Y	97% N	5.7
014	212.5	Yes	N	-1.1
015	242	Y	84% N	-0.6
016	207	Y	N	-1.2
017	275	Y	na	0.1
018	257.3	Y		-0.3
019	388.0	Y		2.2
020	279	Y	Y	0.1
021	292	Y		0.4
022	226.5	Y	72% Y	-0.8
023	250	Y		-0.4
024	<200	Y	Y	
025	257	y	n	-0.3

Results are presented as reported by participants.
 Internal standard used Y/N? = acrylamide labelled internal standard added at the outset, yes or no?
 Recovery % / applied Y/N? = recovery (%) and whether or not the recovery was applied to the result
 z-scores outside the satisfactory range, i.e. $|z| > 2$, are shown in **bold**.

Table 1 (continued): Results and z-Scores for Crispbread Test Material

laboratory number	analyte			
	acrylamide assigned value 271 µg/kg			
	result µg/kg	internal standard used Y/N?	recovery % / applied Y/N?	z-score
026	249	Y		-0.4
027	190	Y	N	-1.5
028	298	Y	90% N	0.5
029	302	N	91.9 N	0.6
030	257	Y	100	-0.3
031	260	Y	Y	-0.2
032	300	Y	101	0.5
033	285	yes	107 % no	0.3
034	366	Y	Y	1.8
035	218.6	Y	N	-1.0
036	311	Y		0.8
037	293	Y	N	0.4
038	330.6	Y	N	1.1
039	283.8	Y	104 N	0.2
040	620	Y	Y	6.6
041	336	Y	N	1.2
042	266.4	Y	N	-0.1
043	408	Y		2.6
044	206.9	Y		-1.2
045	358	Y	117% Y	1.6
046	283	Yes		0.2
047	235	Y	95	-0.7
048	224	Y	Y	-0.9
049	268	N	N	-0.1
050	255	Yes	No	-0.3
051	290	Y	N	0.4

Results are presented as reported by participants.
 Internal standard used Y/N? = acrylamide labelled internal standard added at the outset, yes or no?
 Recovery % / applied Y/N? = recovery (%) and whether or not the recovery was applied to the result
 z-scores outside the satisfactory range, i.e. $|z| > 2$, are shown in **bold**.

Table 2: Assigned Value and Target Standard Deviation

analyte	assigned value, $\mu\text{g/kg}$		target standard deviation, $\mu\text{g/kg}$		
	data points, n	robust mean, \hat{X}	robust standard deviation, $\hat{\sigma}$	uncertainty, u	derived from σ_p
acrylamide	48	271	49.6	7.16	Horwitz* 52.8

*See page 7 for appropriate form of the Horwitz equation.

Table 3: Number and Percentage of Satisfactory z-Scores

analyte	number of satisfactory scores, $ z \leq 2$	total number of scores	satisfactory %
acrylamide	46	50	92

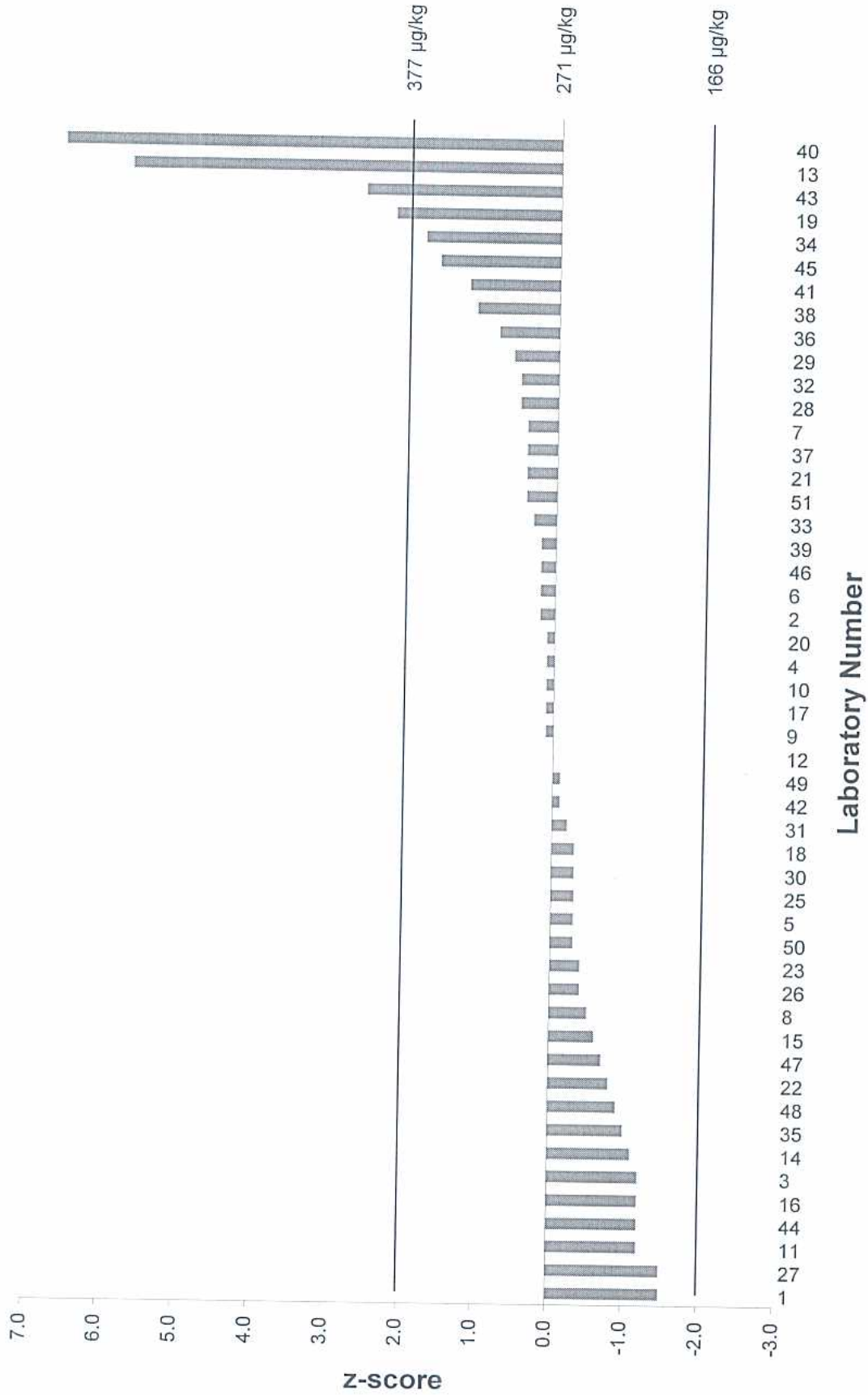


Figure 1: z-Scores for Acrylamide (271 µg/kg) in Crispbread Test Material

APPENDIX I: Homogeneity Data for Crispbread Test Material

sample identity	analyte	
	acrylamide µg/kg	
	replicate 1	replicate 2
1	206.9	165.7
2	233.5	270.5
3	243.7	241.9
4	231.2	252.1
5	201.6	232.9
6	236.8	233.5
7	188.7	152.9
8	229.1	216.6
9	173.8	203.7
10	222.8	201.0
mean, <i>n</i>	219.9	20
origin of target sd (σ_p)	Horwitz*	original
abs. target sd (σ_p) & as RSD%	43.68	20.13
S_{an}	19.11	
S_{sam}^2	568.8	
σ_{all}^2	171.7	
<i>critical</i>	691.8	
$S_{sam}^2 < \text{critical?}$	ACCEPT	

*See page 7 for appropriate form of the Horwitz equation.