

Table 1: Results and z-Scores for Cloudy Apple Juice Test Material

laboratory number	analyte		
	PAT		
	assigned value	53.4 µg/L	
	result µg/L	recovery %	z-score
001	34.9	50	-1.6
002	52	98.9	-0.1
003	96.1	101	3.6
004	69.15	85.73	1.3
005	66	62	1.1
006	53	95	0.0
007	40.09	79.62	-1.1
008	56	96	0.2
009	31.1	78.8	-1.9
010	56.5	100	0.3
011	59.1	91.3	0.5
012	43.59	92.7	-0.8
013	133.5	70	6.8
014	64.2	78.6	0.9
015	56.1	84	0.2
016	50.0	89	-0.3
017	64.0	80.0	0.9
018	60.3	72	0.6
019	47	85	-0.5
020	65.62	65	1.0
021	50.4	102	-0.3
022	44.8	111	-0.7
023	64.1	75.4	0.9
024	72.11	79.23	1.6
025	40.0	85	-1.1
026 ^a	61	75	0.6
027	24.8	82	-2.4

information is shown as reported by participants

z-scores outside the satisfactory range , i.e. $|z| > 2$, are shown in **bold**

Participants' comments submitted with results :

■ = or µg/kg

Table 1 (continued): Results and z-Scores for Cloudy Apple Juice Test Material

laboratory number	analyte		
	PAT		
	assigned value	53.4 µg/L	
	result µg/L	recovery %	z-score
028	51	91.6	-0.2
029	54.3	86	0.1
030	75.0	89	1.8
031	56.2	87	0.2
032	60.15	75.5	0.6
033	53.26	65.6	0.0
034	73.55	85.4	1.7
035	28.36	84.5	-2.1
036	28.36	83.9	-2.1
037	80.4	88.4	2.3
038	55	93.5	0.1
039	79.9	117	2.3
040	46.75	79	-0.6
041	50.0	82	-0.3
042	9.8	84.8	-3.7
043	31.4	67.9	-1.9
044	Not measured		
045	130	70	6.5
046	39.3	95.9	-1.2
047	51.6	91%	-0.2
048	47.13	61	-0.5
049	33.1	100	-1.7
050	10.1	71	-3.7
051	62.1	100	0.7
052	38.23	93.1	-1.3
053	34.1	88	-1.6
054	81.1	97	2.4
055 [▲]	53	100	0.0

information is shown as reported by participants

z-scores outside the satisfactory range , i.e. $|z| > 2$, are shown in **bold**

Participants' comments submitted with results :

▲ = recovery set to 100%, because of internal calibration with recovery standard

Table 2: Assigned Values and Target Standard Deviations

analyte	assigned value, µg/L				target standard deviation	
	data points <i>n</i>	robust mean \hat{X}	robust standard deviation, $\hat{\sigma}$	uncertainty <i>u</i>	derived from	σ_p
PAT	54	53.4	18.1	2.46	Horwitz*	11.8

* 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 %
PAT	43	54	80