

## results sample 1

participant number	2-Butanon		4-Methyl-2-pentanone		Cyclohexanone		Cyclopentanone	
	result [mg/m <sup>3</sup> ]	z  - score	result [mg/m <sup>3</sup> ]	z  - score	result [mg/m <sup>3</sup> ]	z  - score	result [mg/m <sup>3</sup> ]	z  - score
5	87,8	0,3	53,50	0,2	33,43	1,2	74,8	1,8
14	k.A.	k.A.	52,43	0,0	47,03	2,4	71,7	2,1
19	97,3	1,4	65,30	2,5	40,35	0,6	98,0	0,7
184	54,0	3,7	90,52	7,3	37,57	0,1	81,1	1,1
245	148,0	7,4	87,50	6,8	64,80	7,1	130,0	4,3
252	78,9	0,7	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.

 marked fields are outliers!

	2-Butanon	4-Methyl-2-pentanone	Cyclohexanone	Cyclopentanone
"true result" (mean value of 11 samples) [mg/m <sup>3</sup> ]	85,20	52,20	38,00	91,20
adjusted loading concentration [mg/m <sup>3</sup> ]	87,00	52,20	38,60	93,60

Evaluation of z-score based on "true value" (mean of 11 samples taken at the dynamic test gas stream during the round robin test)

## results sample 2

participant number	1-Butanol		Ethylbenzene		n-Butyl acetate		n-Hexane		p-Xylene		Toluene	
	result [mg/m <sup>3</sup> ]	z  - score	result [mg/m <sup>3</sup> ]	z  - score	result [mg/m <sup>3</sup> ]	z  - score	result [mg/m <sup>3</sup> ]	z  - score	result [mg/m <sup>3</sup> ]	z  - score	result [mg/m <sup>3</sup> ]	z  - score
5	77,01	0,7	96,58	0,3	63,75	0,2	87,76	1,2	65,59	0,2	65,24	0,1
14	k.A.	k.A.	100,3	0,0	63,67	0,2	81,87	0,5	64,77	0,3	64,67	0,0
19	75,60	0,8	94,60	0,5	62,40	0,0	69,75	1,1	64,95	0,3	62,80	0,3
184	73,75	1,1	79,70	2,0	108,5	7,4	63,10	1,9	54,33	1,9	53,10	1,8
245	37,00	5,5	89,40	1,1	139,0	12,3	73,10	0,6	58,70	1,2	58,30	1,0
252	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	78,50	0,1	k.A.	k.A.	55,00	1,5

 marked fields are outliers!

	1-Butanol	Ethylbenzene	n-Butylacetate	n-Hexane	p-Xylene	Toluene
"true result" (mean value of 11 samples) [mg/m <sup>3</sup> ]	82,60	100,0	62,40	78,10	67,00	64,70
adjusted loading concentration [mg/m <sup>3</sup> ]	82,50	98,90	64,50	79,90	65,90	65,20

**Evaluation of z-score based on "true value" (mean of 11 samples taken at the dynamic test gas stream during the round robin test)**

### results sample 3

participant number	1-Methoxy-2-propanol		2-Butanol		2-Butoxyethanol		Ethanol	
	result [mg/m³]	z  - score	result [mg/m³]	z  - score	result [mg/m³]	z  - score	result [mg/m³]	z  - score
5	80,79	0,2	55,02	0,2	30,28	0,1	139,5	2,1
14	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.
19	71,00	1,0	63,60	1,8	36,00	2,0	123,0	0,6
184	69,26	1,2	50,04	0,7	28,17	0,6	95,54	1,7
245	k.A.	k.A.	38,10	2,9	33,30	1,1	64,70	4,4
252	k.A.	k.A.	k.A.	k.A.	k.A.	k.A.	103,1	1,1

 marked fields are outliers!

	1-Methoxy-2-propanol	2-Butanol	2-Butoxy-ethanol	Ethanol
"true result" (mean value of 11 samples) [mg/m³]	78,90	53,80	30,00	115,7
adjusted loading concentration [mg/m³]	75,30	52,30	30,30	111,0

Evaluation of z-score based on "true value" (mean of 11 samples taken at the dynamic test gas stream during the round robin test)