

Appendix to the Annual Report 2021

Individual results of the stack emission proficiency tests
for substance ranges P, G and O at the emission simulation
apparatus in 2021

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1. About this Document

This report is a translation of „Anhang zum Jahresbericht 2021 – Einzelergebnisse der Emissionsringversuche der Stoffbereiche P, G und O an der Emissionssimulationsanlage im Jahr 2021“ and was prepared with best care and attention. Nevertheless, the German version of this report shall be taken as authoritative. No guarantee can be given with respect to the English translation.

In order to improve the readability of the annual report on the HLNUG proficiency tests, the individual measurement results of the participants are not presented in the report itself. Instead, these data are listed in this appendix to the annual report.

Unfortunately, HLNUG cannot provide a breakdown of the results according to proficiency test rounds. The participants in a proficiency test round know the identity of the other participants. Consequently, if a list of ID codes of a proficiency test round were published, participants could, with a certain amount of effort, learn the ID code of another participant without his knowledge or consent. In order to prevent this, the German accreditation body DAkkS has asked HLNUG to avoid any connection between results, ID codes and proficiency test rounds in public reports.

2. Results – List of Achieved z-Scores

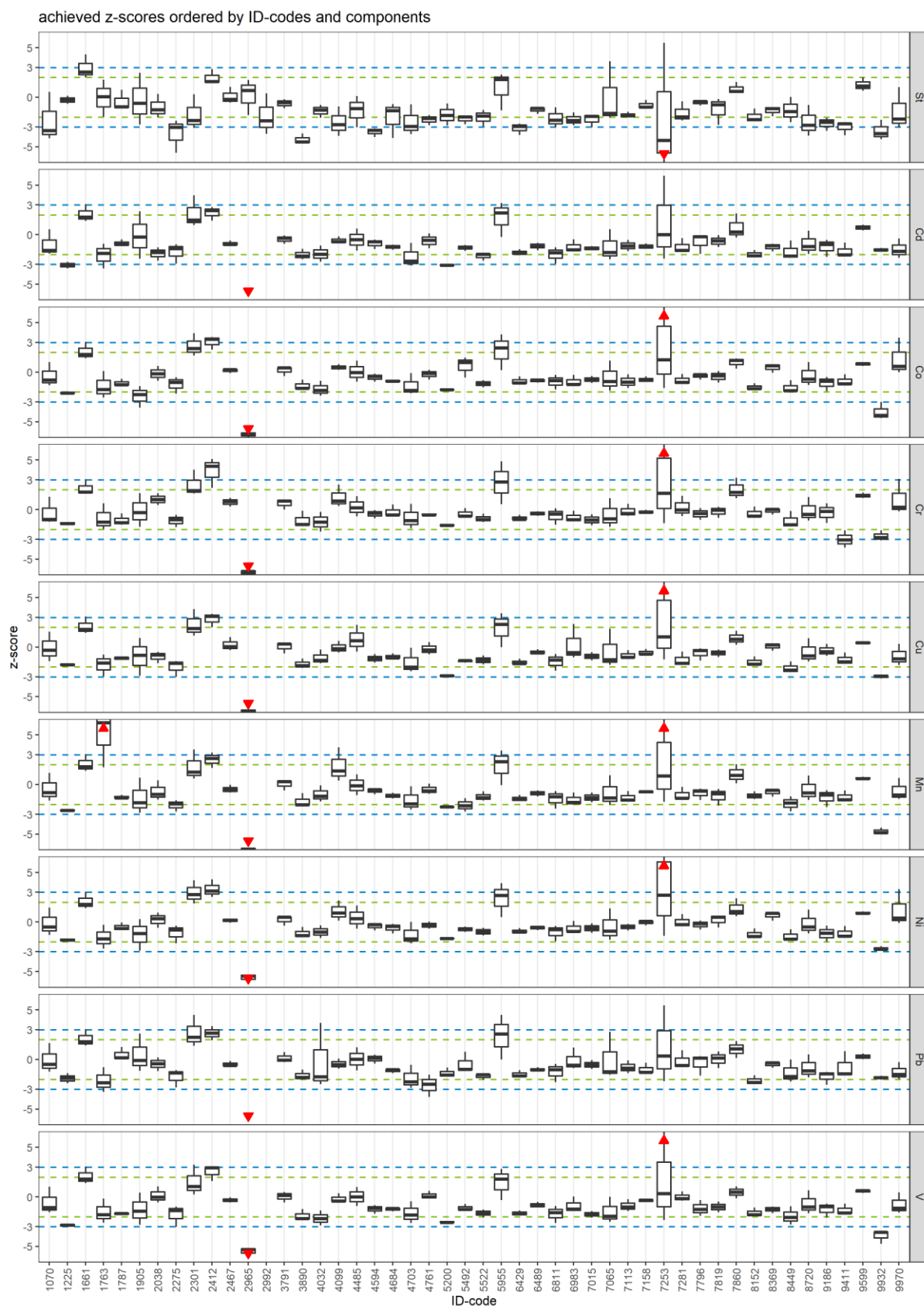
The following tables show the z-scores achieved by the participants. The values are sorted by component and ID code. The measurement ID (column 2) is an alphanumeric identifier that can be clearly assigned to each measurement and consists of the component description, measurement number and the participant ID code.

If a participant did not submit a value for one or more measurements, this is indicated by a "-/-".

A compact overview of the z-scores achieved by the participants can be found in the following box whisker plots. The rectangle indicates values between the 25th and 75th percentile (interquartile distance), the bold line inside the rectangle indicates the median of the values. The "antennas" reach from the upper edge of the rectangle to the highest and from the lower edge to the lowest value, which is still within 1.5 times the interquartile distance. Values outside this range are displayed separately in the diagram, points outside the diagram range are indicated by red arrows.

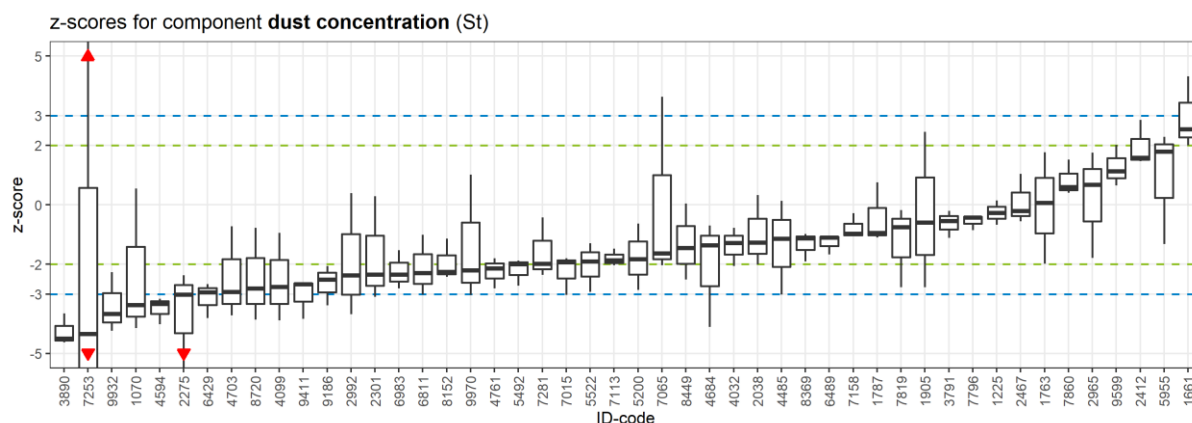
In order to be able to assess the performance of individual participants across all components and to get an impression of the quality of measurements for individual components, the diagrams are available in two different sorts; on the one hand as an overview on one page, on the other hand sorted according to the respective median of the achieved z-scores.

2.1 Dust (Substance Range P)



Scheme 1: z-scores for the substance range P

2.1.1 Dust Concentration



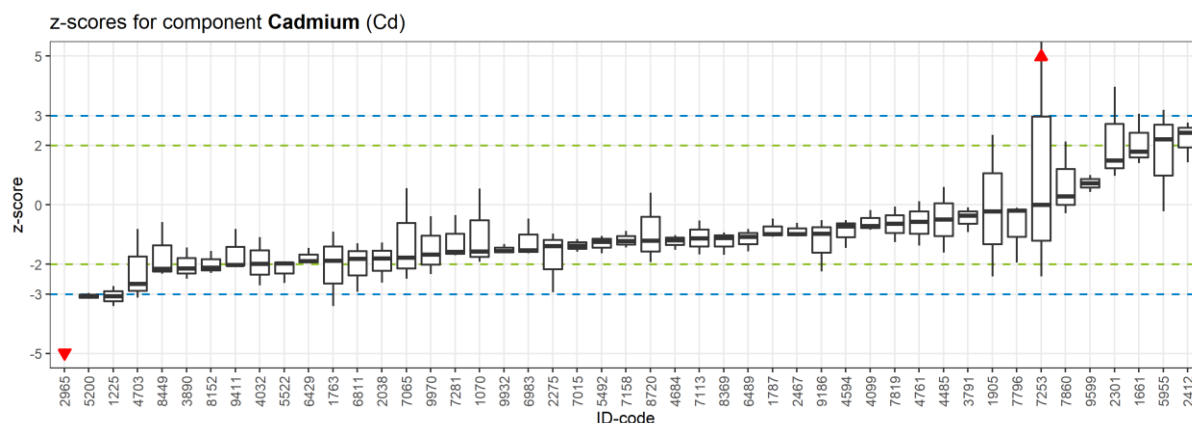
No.	Measurement ID	z-Score
1	St-1-1070	-3,37
2	St-2-1070	0,55
3	St-3-1070	-4,15
4	St-1-1225	-/-
5	St-2-1225	0,14
6	St-3-1225	-0,67
7	St-1-1661	2,00
8	St-2-1661	2,55
9	St-3-1661	4,31
10	St-1-1763	-1,98
11	St-2-1763	0,06
12	St-3-1763	1,76
13	St-1-1787	-1,10
14	St-2-1787	0,75
15	St-3-1787	-0,95
16	St-1-1905	-2,77
17	St-2-1905	-0,60
18	St-3-1905	2,45
19	St-1-2038	-1,26
20	St-2-2038	0,33
21	St-3-2038	-2,01
22	St-1-2275	-5,60
23	St-2-2275	-2,37
24	St-3-2275	-3,02
25	St-1-2301	-2,35
26	St-2-2301	0,29
27	St-3-2301	-3,09
28	St-1-2412	1,46
29	St-2-2412	2,86
30	St-3-2412	1,58
31	St-1-2467	1,04
32	St-2-2467	-0,55

No.	Measurement ID	z-Score
33	St-3-2467	-0,20
34	St-1-2965	0,68
35	St-2-2965	-1,79
36	St-3-2965	1,75
37	St-1-2992	0,39
38	St-2-2992	-3,68
39	St-3-2992	-2,37
40	St-1-3791	-0,54
41	St-2-3791	-0,21
42	St-3-3791	-1,12
43	St-1-3890	-4,50
44	St-2-3890	-4,63
45	St-3-3890	-3,65
46	St-1-4032	-2,06
47	St-2-4032	-0,78
48	St-3-4032	-1,28
49	St-1-4099	-3,89
50	St-2-4099	-2,76
51	St-3-4099	-0,94
52	St-1-4485	-3,02
53	St-2-4485	0,13
54	St-3-4485	-1,14
55	St-1-4594	-3,16
56	St-2-4594	-4,02
57	St-3-4594	-3,33
58	St-1-4684	-1,36
59	St-2-4684	-4,10
60	St-3-4684	-0,70
61	St-1-4703	-3,72
62	St-2-4703	-0,73
63	St-3-4703	-2,93
64	St-1-4761	-2,13

No.	Measurement ID	z-Score
65	St-2-4761	-2,82
66	St-3-4761	-1,80
67	St-1-5200	-0,63
68	St-2-5200	-1,83
69	St-3-5200	-2,86
70	St-1-5492	-2,73
71	St-2-5492	-1,99
72	St-3-5492	-1,88
73	St-1-5522	-1,90
74	St-2-5522	-2,93
75	St-3-5522	-1,29
76	St-1-5955	-1,32
77	St-2-5955	2,28
78	St-3-5955	1,79
79	St-1-6429	-3,81
80	St-2-6429	-2,94
81	St-3-6429	-2,67
82	St-1-6489	-1,67
83	St-2-6489	-1,04
84	St-3-6489	-1,10
85	St-1-6811	-1,01
86	St-2-6811	-2,30
87	St-3-6811	-3,02
88	St-1-6983	-2,81
89	St-2-6983	-1,53
90	St-3-6983	-2,35
91	St-1-7015	-1,81
92	St-2-7015	-3,03
93	St-3-7015	-1,93
94	St-1-7065	-2,03
95	St-2-7065	-1,63
96	St-3-7065	3,63
97	St-1-7113	-1,47
98	St-2-7113	-1,87
99	St-3-7113	-2,04
100	St-1-7158	-0,28
101	St-2-7158	-1,06
102	St-3-7158	-0,98
103	St-1-7253	5,47
104	St-2-7253	-6,87

No.	Measurement ID	z-Score
105	St-3-7253	-4,34
106	St-1-7281	-2,35
107	St-2-7281	-0,43
108	St-3-7281	-1,98
109	St-1-7796	-0,42
110	St-2-7796	-0,86
111	St-3-7796	-0,38
112	St-1-7819	-0,76
113	St-2-7819	-2,78
114	St-3-7819	-0,17
115	St-1-7860	0,59
116	St-2-7860	0,40
117	St-3-7860	1,52
118	St-1-8152	-2,42
119	St-2-8152	-2,26
120	St-3-8152	-1,14
121	St-1-8369	-1,13
122	St-2-8369	-0,99
123	St-3-8369	-1,91
124	St-1-8449	-1,46
125	St-2-8449	-2,51
126	St-3-8449	0,04
127	St-1-8720	-0,78
128	St-2-8720	-3,86
129	St-3-8720	-2,81
130	St-1-9186	-3,38
131	St-2-9186	-2,51
132	St-3-9186	-2,06
133	St-1-9411	-3,84
134	St-2-9411	-2,67
135	St-3-9411	-2,60
136	St-1-9599	0,65
137	St-2-9599	1,13
138	St-3-9599	2,01
139	St-1-9932	-3,66
140	St-2-9932	-2,27
141	St-3-9932	-4,24
142	St-1-9970	-3,04
143	St-2-9970	-2,21
144	St-3-9970	1,01

2.1.2 Cadmium



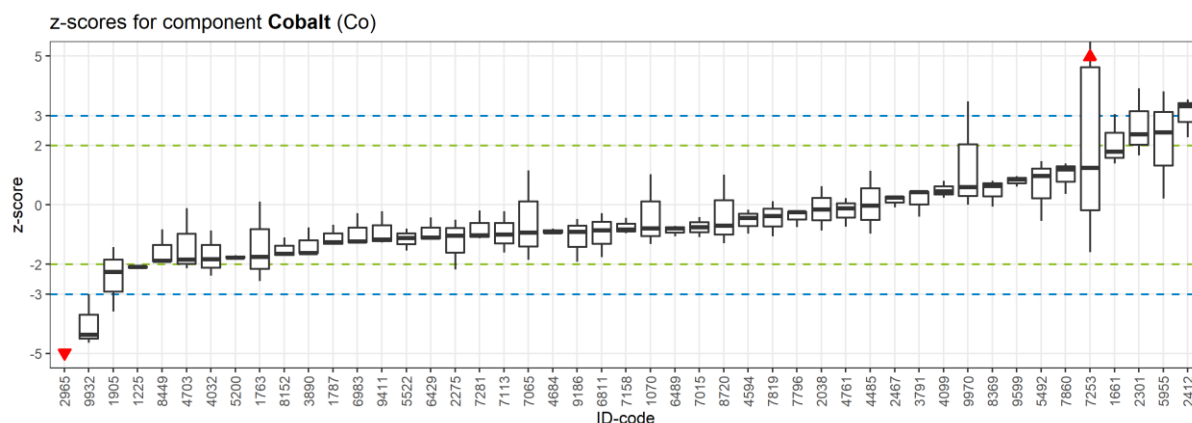
No.	Measurement ID	z-Score
1	Cd-1-1070	-1,57
2	Cd-2-1070	0,54
3	Cd-3-1070	-1,92
4	Cd-1-1225	-/-
5	Cd-2-1225	-3,40
6	Cd-3-1225	-2,74
7	Cd-1-1661	1,40
8	Cd-2-1661	1,79
9	Cd-3-1661	3,06
10	Cd-1-1763	-3,41
11	Cd-2-1763	-0,91
12	Cd-3-1763	-1,88
13	Cd-1-1787	-1,08
14	Cd-2-1787	-0,47
15	Cd-3-1787	-0,98
16	Cd-1-1905	-2,41
17	Cd-2-1905	-0,22
18	Cd-3-1905	2,35
19	Cd-1-2038	-1,80
20	Cd-2-2038	-1,27
21	Cd-3-2038	-2,62
22	Cd-1-2275	-2,94
23	Cd-2-2275	-1,38
24	Cd-3-2275	-0,97
25	Cd-1-2301	1,49
26	Cd-2-2301	3,96
27	Cd-3-2301	0,97
28	Cd-1-2412	1,43
29	Cd-2-2412	2,76
30	Cd-3-2412	2,43
31	Cd-1-2467	-1,06
32	Cd-2-2467	-0,98

No.	Measurement ID	z-Score
33	Cd-3-2467	-0,60
34	Cd-1-2965	-8,37
35	Cd-2-2965	-8,75
36	Cd-3-2965	-8,40
37	Cd-1-2992	-/-
38	Cd-2-2992	-/-
39	Cd-3-2992	-/-
40	Cd-1-3791	-0,36
41	Cd-2-3791	-0,09
42	Cd-3-3791	-0,91
43	Cd-1-3890	-2,48
44	Cd-2-3890	-2,14
45	Cd-3-3890	-1,43
46	Cd-1-4032	-2,71
47	Cd-2-4032	-1,09
48	Cd-3-4032	-1,98
49	Cd-1-4099	-0,84
50	Cd-2-4099	-0,71
51	Cd-3-4099	-0,18
52	Cd-1-4485	-1,60
53	Cd-2-4485	0,60
54	Cd-3-4485	-0,49
55	Cd-1-4594	-0,51
56	Cd-2-4594	-1,45
57	Cd-3-4594	-0,72
58	Cd-1-4684	-1,51
59	Cd-2-4684	-1,19
60	Cd-3-4684	-1,02
61	Cd-1-4703	-2,65
62	Cd-2-4703	-0,82
63	Cd-3-4703	-3,12
64	Cd-1-4761	-0,56

No.	Measurement ID	z-Score
65	Cd-2-4761	0,12
66	Cd-3-4761	-1,38
67	Cd-1-5200	-3,16
68	Cd-2-5200	-2,96
69	Cd-3-5200	-3,08
70	Cd-1-5492	-1,05
71	Cd-2-5492	-1,63
72	Cd-3-5492	-1,24
73	Cd-1-5522	-1,97
74	Cd-2-5522	-2,64
75	Cd-3-5522	-1,91
76	Cd-1-5955	-0,22
77	Cd-2-5955	3,19
78	Cd-3-5955	2,20
79	Cd-1-6429	-1,89
80	Cd-2-6429	-1,45
81	Cd-3-6429	-1,96
82	Cd-1-6489	-1,57
83	Cd-2-6489	-1,08
84	Cd-3-6489	-0,82
85	Cd-1-6811	-1,29
86	Cd-2-6811	-1,81
87	Cd-3-6811	-2,93
88	Cd-1-6983	-1,53
89	Cd-2-6983	-0,47
90	Cd-3-6983	-1,64
91	Cd-1-7015	-1,16
92	Cd-2-7015	-1,58
93	Cd-3-7015	-/-
94	Cd-1-7065	-2,49
95	Cd-2-7065	-1,78
96	Cd-3-7065	0,56
97	Cd-1-7113	-1,67
98	Cd-2-7113	-1,13
99	Cd-3-7113	-0,54
100	Cd-1-7158	-0,88
101	Cd-2-7158	-1,43
102	Cd-3-7158	-1,22
103	Cd-1-7253	5,95
104	Cd-2-7253	-2,41

No.	Measurement ID	z-Score
105	Cd-3-7253	0,00
106	Cd-1-7281	-1,59
107	Cd-2-7281	-0,35
108	Cd-3-7281	-1,70
109	Cd-1-7796	-0,11
110	Cd-2-7796	-1,94
111	Cd-3-7796	-0,20
112	Cd-1-7819	-0,63
113	Cd-2-7819	-1,26
114	Cd-3-7819	-0,06
115	Cd-1-7860	0,28
116	Cd-2-7860	-0,28
117	Cd-3-7860	2,12
118	Cd-1-8152	-2,29
119	Cd-2-8152	-2,11
120	Cd-3-8152	-1,55
121	Cd-1-8369	-1,11
122	Cd-2-8369	-0,93
123	Cd-3-8369	-1,68
124	Cd-1-8449	-2,15
125	Cd-2-8449	-2,32
126	Cd-3-8449	-0,58
127	Cd-1-8720	0,40
128	Cd-2-8720	-1,93
129	Cd-3-8720	-1,20
130	Cd-1-9186	-2,24
131	Cd-2-9186	-0,98
132	Cd-3-9186	-0,52
133	Cd-1-9411	-2,04
134	Cd-2-9411	-0,81
135	Cd-3-9411	-2,02
136	Cd-1-9599	0,73
137	Cd-2-9599	0,42
138	Cd-3-9599	1,00
139	Cd-1-9932	-1,32
140	Cd-2-9932	-1,64
141	Cd-3-9932	-1,55
142	Cd-1-9970	-2,33
143	Cd-2-9970	-1,68
144	Cd-3-9970	-0,39

2.1.3 Cobalt



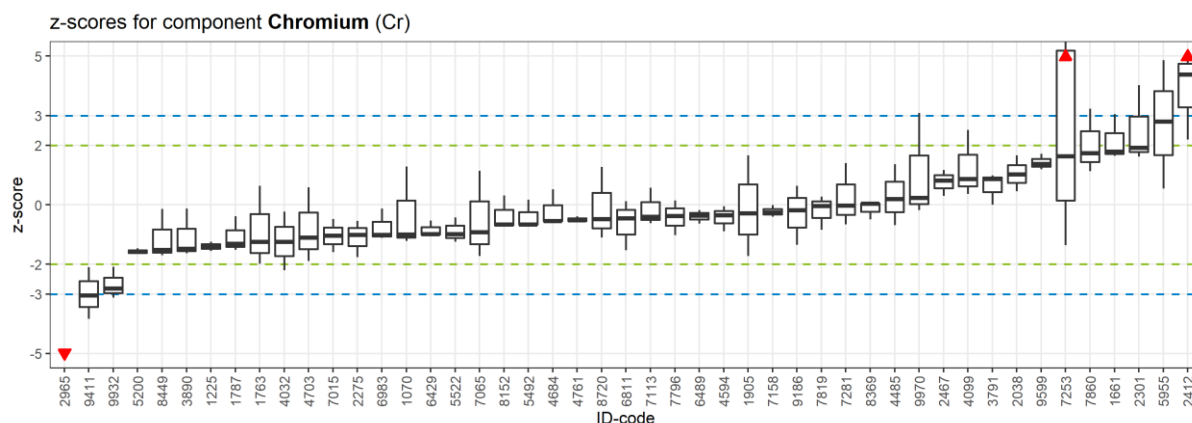
No.	Measurement ID	z-Score
1	Co-1-1070	-0,79
2	Co-2-1070	1,02
3	Co-3-1070	-1,32
4	Co-1-1225	-/-
5	Co-2-1225	-2,12
6	Co-3-1225	-2,06
7	Co-1-1661	1,39
8	Co-2-1661	1,79
9	Co-3-1661	3,05
10	Co-1-1763	-2,56
11	Co-2-1763	0,11
12	Co-3-1763	-1,74
13	Co-1-1787	-1,26
14	Co-2-1787	-0,67
15	Co-3-1787	-1,35
16	Co-1-1905	-3,59
17	Co-2-1905	-2,25
18	Co-3-1905	-1,43
19	Co-1-2038	-0,16
20	Co-2-2038	0,62
21	Co-3-2038	-0,87
22	Co-1-2275	-2,17
23	Co-2-2275	-1,03
24	Co-3-2275	-0,51
25	Co-1-2301	2,38
26	Co-2-2301	3,92
27	Co-3-2301	1,66
28	Co-1-2412	2,27
29	Co-2-2412	3,53
30	Co-3-2412	3,32
31	Co-1-2467	0,25
32	Co-2-2467	-0,09

No.	Measurement ID	z-Score
33	Co-3-2467	0,30
34	Co-1-2965	-6,03
35	Co-2-2965	-6,68
36	Co-3-2965	-6,20
37	Co-1-2992	-/-
38	Co-2-2992	-/-
39	Co-3-2992	-/-
40	Co-1-3791	0,45
41	Co-2-3791	0,43
42	Co-3-3791	-0,40
43	Co-1-3890	-1,62
44	Co-2-3890	-1,62
45	Co-3-3890	-0,76
46	Co-1-4032	-2,39
47	Co-2-4032	-0,87
48	Co-3-4032	-1,82
49	Co-1-4099	0,24
50	Co-2-4099	0,46
51	Co-3-4099	0,80
52	Co-1-4485	-0,98
53	Co-2-4485	1,15
54	Co-3-4485	-0,03
55	Co-1-4594	-0,16
56	Co-2-4594	-0,97
57	Co-3-4594	-0,44
58	Co-1-4684	-0,92
59	Co-2-4684	-0,95
60	Co-3-4684	-0,80
61	Co-1-4703	-1,84
62	Co-2-4703	-0,11
63	Co-3-4703	-2,13
64	Co-1-4761	-0,12

No.	Measurement ID	z-Score
65	Co-2-4761	0,23
66	Co-3-4761	-0,74
67	Co-1-5200	-1,77
68	Co-2-5200	-1,70
69	Co-3-5200	-1,80
70	Co-1-5492	1,46
71	Co-2-5492	0,97
72	Co-3-5492	-0,54
73	Co-1-5522	-0,80
74	Co-2-5522	-1,54
75	Co-3-5522	-1,12
76	Co-1-5955	0,21
77	Co-2-5955	3,81
78	Co-3-5955	2,44
79	Co-1-6429	-1,10
80	Co-2-6429	-0,43
81	Co-3-6429	-1,16
82	Co-1-6489	-1,06
83	Co-2-6489	-0,79
84	Co-3-6489	-0,72
85	Co-1-6811	-0,28
86	Co-2-6811	-0,85
87	Co-3-6811	-1,76
88	Co-1-6983	-1,23
89	Co-2-6983	-0,29
90	Co-3-6983	-1,27
91	Co-1-7015	-0,41
92	Co-2-7015	-1,09
93	Co-3-7015	-/-
94	Co-1-7065	-1,86
95	Co-2-7065	-0,93
96	Co-3-7065	1,16
97	Co-1-7113	-1,61
98	Co-2-7113	-0,99
99	Co-3-7113	-0,23
100	Co-1-7158	-0,44
101	Co-2-7158	-0,96
102	Co-3-7158	-0,83
103	Co-1-7253	8,03
104	Co-2-7253	-1,60

No.	Measurement ID	z-Score
105	Co-3-7253	1,24
106	Co-1-7281	-1,02
107	Co-2-7281	-0,19
108	Co-3-7281	-1,12
109	Co-1-7796	-0,25
110	Co-2-7796	-0,75
111	Co-3-7796	-0,22
112	Co-1-7819	-0,38
113	Co-2-7819	-1,06
114	Co-3-7819	0,12
115	Co-1-7860	1,20
116	Co-2-7860	0,36
117	Co-3-7860	1,39
118	Co-1-8152	-1,65
119	Co-2-8152	-1,72
120	Co-3-8152	-1,10
121	Co-1-8369	0,64
122	Co-2-8369	0,81
123	Co-3-8369	-0,07
124	Co-1-8449	-1,91
125	Co-2-8449	-1,87
126	Co-3-8449	-0,82
127	Co-1-8720	1,02
128	Co-2-8720	-1,30
129	Co-3-8720	-0,70
130	Co-1-9186	-1,92
131	Co-2-9186	-0,91
132	Co-3-9186	-0,48
133	Co-1-9411	-1,17
134	Co-2-9411	-0,22
135	Co-3-9411	-1,26
136	Co-1-9599	0,96
137	Co-2-9599	0,61
138	Co-3-9599	0,86
139	Co-1-9932	-4,37
140	Co-2-9932	-4,64
141	Co-3-9932	-3,01
142	Co-1-9970	0,01
143	Co-2-9970	0,60
144	Co-3-9970	3,48

2.1.4 Chromium



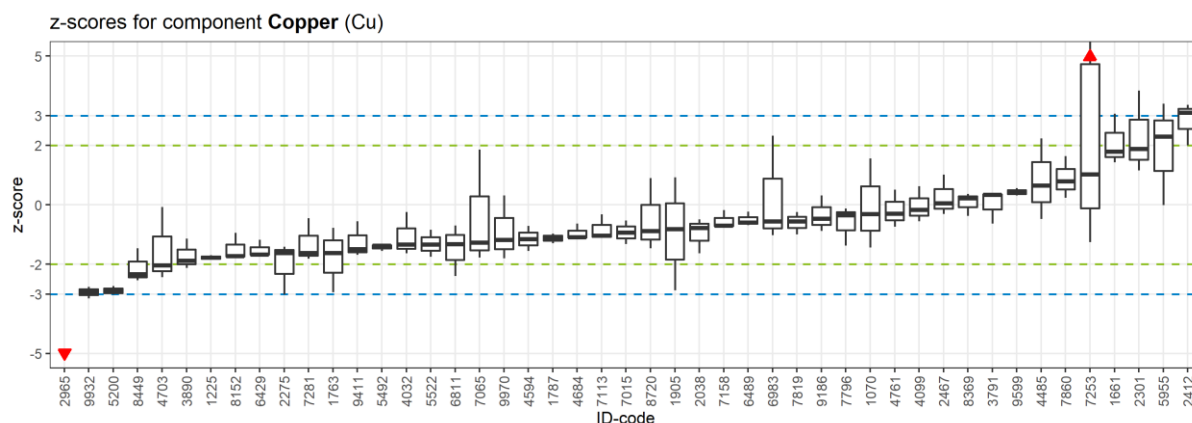
No.	Measurement ID	z-Score
1	Cr-1-1070	-0,99
2	Cr-2-1070	1,29
3	Cr-3-1070	-1,21
4	Cr-1-1225	-/-
5	Cr-2-1225	-1,24
6	Cr-3-1225	-1,55
7	Cr-1-1661	1,65
8	Cr-2-1661	1,79
9	Cr-3-1661	3,05
10	Cr-1-1763	-1,99
11	Cr-2-1763	0,63
12	Cr-3-1763	-1,25
13	Cr-1-1787	-1,31
14	Cr-2-1787	-0,39
15	Cr-3-1787	-1,52
16	Cr-1-1905	-1,72
17	Cr-2-1905	-0,28
18	Cr-3-1905	1,66
19	Cr-1-2038	1,02
20	Cr-2-2038	1,65
21	Cr-3-2038	0,45
22	Cr-1-2275	-1,76
23	Cr-2-2275	-1,02
24	Cr-3-2275	-0,54
25	Cr-1-2301	1,92
26	Cr-2-2301	4,01
27	Cr-3-2301	1,62
28	Cr-1-2412	2,19
29	Cr-2-2412	5,10
30	Cr-3-2412	4,38
31	Cr-1-2467	1,17
32	Cr-2-2467	0,29

No.	Measurement ID	z-Score
33	Cr-3-2467	0,82
34	Cr-1-2965	-6,10
35	Cr-2-2965	-6,66
36	Cr-3-2965	-6,22
37	Cr-1-2992	-/-
38	Cr-2-2992	-/-
39	Cr-3-2992	-/-
40	Cr-1-3791	0,87
41	Cr-2-3791	0,98
42	Cr-3-3791	0,00
43	Cr-1-3890	-1,48
44	Cr-2-3890	-1,63
45	Cr-3-3890	-0,13
46	Cr-1-4032	-2,20
47	Cr-2-4032	-0,23
48	Cr-3-4032	-1,25
49	Cr-1-4099	0,37
50	Cr-2-4099	0,87
51	Cr-3-4099	2,52
52	Cr-1-4485	-0,69
53	Cr-2-4485	1,36
54	Cr-3-4485	0,19
55	Cr-1-4594	-0,06
56	Cr-2-4594	-0,89
57	Cr-3-4594	-0,35
58	Cr-1-4684	-0,55
59	Cr-2-4684	-0,55
60	Cr-3-4684	0,52
61	Cr-1-4703	-1,10
62	Cr-2-4703	0,59
63	Cr-3-4703	-1,89
64	Cr-1-4761	-0,38

No.	Measurement ID	z-Score
65	Cr-2-4761	-0,52
66	Cr-3-4761	-0,56
67	Cr-1-5200	-1,65
68	Cr-2-5200	-1,47
69	Cr-3-5200	-1,58
70	Cr-1-5492	0,17
71	Cr-2-5492	-0,66
72	Cr-3-5492	-0,66
73	Cr-1-5522	-0,42
74	Cr-2-5522	-1,24
75	Cr-3-5522	-0,98
76	Cr-1-5955	0,55
77	Cr-2-5955	4,86
78	Cr-3-5955	2,80
79	Cr-1-6429	-0,98
80	Cr-2-6429	-0,53
81	Cr-3-6429	-1,01
82	Cr-1-6489	-0,64
83	Cr-2-6489	-0,36
84	Cr-3-6489	-0,18
85	Cr-1-6811	0,11
86	Cr-2-6811	-0,46
87	Cr-3-6811	-1,53
88	Cr-1-6983	-1,02
89	Cr-2-6983	-0,12
90	Cr-3-6983	-1,11
91	Cr-1-7015	-0,48
92	Cr-2-7015	-1,60
93	Cr-3-7015	-/-
94	Cr-1-7065	-1,72
95	Cr-2-7065	-0,91
96	Cr-3-7065	1,14
97	Cr-1-7113	-0,62
98	Cr-2-7113	-0,40
99	Cr-3-7113	0,57
100	Cr-1-7158	-0,01
101	Cr-2-7158	-0,26
102	Cr-3-7158	-0,39
103	Cr-1-7253	8,73
104	Cr-2-7253	-1,36

No.	Measurement ID	z-Score
105	Cr-3-7253	1,64
106	Cr-1-7281	-0,66
107	Cr-2-7281	1,40
108	Cr-3-7281	-0,02
109	Cr-1-7796	0,15
110	Cr-2-7796	-1,02
111	Cr-3-7796	-0,38
112	Cr-1-7819	-0,04
113	Cr-2-7819	-0,84
114	Cr-3-7819	0,27
115	Cr-1-7860	1,74
116	Cr-2-7860	1,13
117	Cr-3-7860	3,22
118	Cr-1-8152	-0,72
119	Cr-2-8152	-0,66
120	Cr-3-8152	0,31
121	Cr-1-8369	0,05
122	Cr-2-8369	0,03
123	Cr-3-8369	-0,49
124	Cr-1-8449	-1,69
125	Cr-2-8449	-1,52
126	Cr-3-8449	-0,14
127	Cr-1-8720	1,27
128	Cr-2-8720	-1,10
129	Cr-3-8720	-0,48
130	Cr-1-9186	-1,35
131	Cr-2-9186	-0,18
132	Cr-3-9186	0,64
133	Cr-1-9411	-3,04
134	Cr-2-9411	-2,10
135	Cr-3-9411	-3,84
136	Cr-1-9599	1,71
137	Cr-2-9599	1,19
138	Cr-3-9599	1,37
139	Cr-1-9932	-3,12
140	Cr-2-9932	-2,09
141	Cr-3-9932	-2,81
142	Cr-1-9970	-0,18
143	Cr-2-9970	0,23
144	Cr-3-9970	3,09

2.1.5 Copper



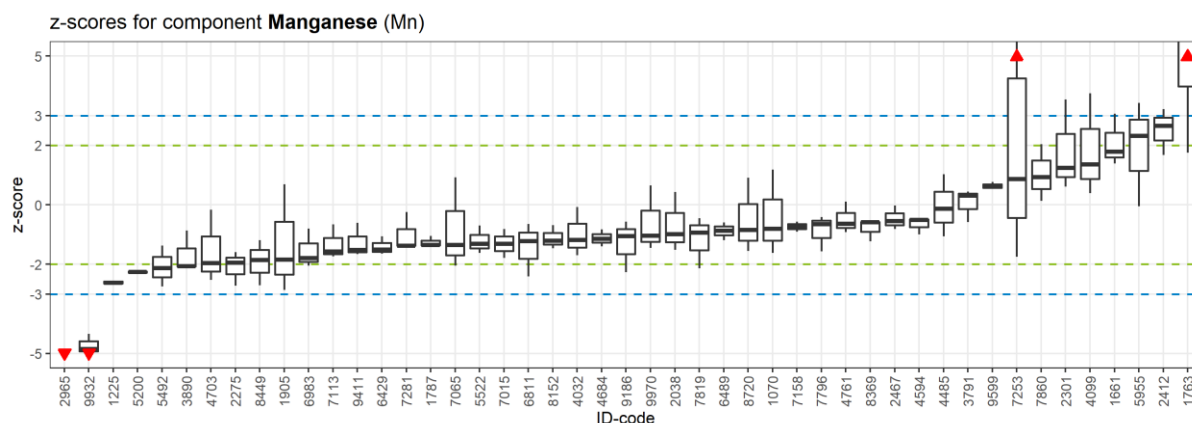
No.	Measurement ID	z-Score
1	Cu-1-1070	-0,31
2	Cu-2-1070	1,56
3	Cu-3-1070	-1,43
4	Cu-1-1225	-/-
5	Cu-2-1225	-1,69
6	Cu-3-1225	-1,85
7	Cu-1-1661	1,43
8	Cu-2-1661	1,79
9	Cu-3-1661	3,07
10	Cu-1-1763	-2,94
11	Cu-2-1763	-0,77
12	Cu-3-1763	-1,62
13	Cu-1-1787	-0,97
14	Cu-2-1787	-1,30
15	Cu-3-1787	-1,11
16	Cu-1-1905	-2,88
17	Cu-2-1905	-0,81
18	Cu-3-1905	0,92
19	Cu-1-2038	-0,78
20	Cu-2-2038	-0,49
21	Cu-3-2038	-1,63
22	Cu-1-2275	-3,02
23	Cu-2-2275	-1,62
24	Cu-3-2275	-1,41
25	Cu-1-2301	1,88
26	Cu-2-2301	3,84
27	Cu-3-2301	1,16
28	Cu-1-2412	2,00
29	Cu-2-2412	3,36
30	Cu-3-2412	3,10
31	Cu-1-2467	1,01
32	Cu-2-2467	-0,31

No.	Measurement ID	z-Score
33	Cu-3-2467	0,05
34	Cu-1-2965	-6,25
35	Cu-2-2965	-6,98
36	Cu-3-2965	-6,42
37	Cu-1-2992	-/-
38	Cu-2-2992	-/-
39	Cu-3-2992	-/-
40	Cu-1-3791	0,38
41	Cu-2-3791	0,33
42	Cu-3-3791	-0,63
43	Cu-1-3890	-2,12
44	Cu-2-3890	-1,88
45	Cu-3-3890	-1,14
46	Cu-1-4032	-1,63
47	Cu-2-4032	-0,25
48	Cu-3-4032	-1,33
49	Cu-1-4099	-0,56
50	Cu-2-4099	-0,17
51	Cu-3-4099	0,62
52	Cu-1-4485	-0,47
53	Cu-2-4485	2,23
54	Cu-3-4485	0,65
55	Cu-1-4594	-0,71
56	Cu-2-4594	-1,56
57	Cu-3-4594	-1,15
58	Cu-1-4684	-1,12
59	Cu-2-4684	-1,08
60	Cu-3-4684	-0,64
61	Cu-1-4703	-2,03
62	Cu-2-4703	-0,08
63	Cu-3-4703	-2,43
64	Cu-1-4761	-0,29

No.	Measurement ID	z-Score
65	Cu-2-4761	0,51
66	Cu-3-4761	-0,74
67	Cu-1-5200	-3,03
68	Cu-2-5200	-2,73
69	Cu-3-5200	-2,90
70	Cu-1-5492	-1,35
71	Cu-2-5492	-1,56
72	Cu-3-5492	-1,37
73	Cu-1-5522	-0,84
74	Cu-2-5522	-1,75
75	Cu-3-5522	-1,33
76	Cu-1-5955	-0,01
77	Cu-2-5955	3,40
78	Cu-3-5955	2,29
79	Cu-1-6429	-1,67
80	Cu-2-6429	-1,18
81	Cu-3-6429	-1,68
82	Cu-1-6489	-0,69
83	Cu-2-6489	-0,59
84	Cu-3-6489	-0,23
85	Cu-1-6811	-0,70
86	Cu-2-6811	-1,32
87	Cu-3-6811	-2,39
88	Cu-1-6983	-1,03
89	Cu-2-6983	2,32
90	Cu-3-6983	-0,56
91	Cu-1-7015	-0,53
92	Cu-2-7015	-1,32
93	Cu-3-7015	-/-
94	Cu-1-7065	-1,78
95	Cu-2-7065	-1,27
96	Cu-3-7065	1,85
97	Cu-1-7113	-1,11
98	Cu-2-7113	-1,04
99	Cu-3-7113	-0,32
100	Cu-1-7158	-0,18
101	Cu-2-7158	-0,69
102	Cu-3-7158	-0,73
103	Cu-1-7253	8,44
104	Cu-2-7253	-1,26

No.	Measurement ID	z-Score
105	Cu-3-7253	1,03
106	Cu-1-7281	-1,81
107	Cu-2-7281	-0,45
108	Cu-3-7281	-1,62
109	Cu-1-7796	-0,13
110	Cu-2-7796	-1,37
111	Cu-3-7796	-0,35
112	Cu-1-7819	-0,56
113	Cu-2-7819	-0,99
114	Cu-3-7819	-0,25
115	Cu-1-7860	0,79
116	Cu-2-7860	0,24
117	Cu-3-7860	1,63
118	Cu-1-8152	-1,75
119	Cu-2-8152	-1,72
120	Cu-3-8152	-0,95
121	Cu-1-8369	0,22
122	Cu-2-8369	0,36
123	Cu-3-8369	-0,37
124	Cu-1-8449	-2,33
125	Cu-2-8449	-2,53
126	Cu-3-8449	-1,46
127	Cu-1-8720	0,89
128	Cu-2-8720	-1,46
129	Cu-3-8720	-0,88
130	Cu-1-9186	-0,46
131	Cu-2-9186	-0,88
132	Cu-3-9186	0,32
133	Cu-1-9411	-1,49
134	Cu-2-9411	-0,56
135	Cu-3-9411	-1,69
136	Cu-1-9599	0,56
137	Cu-2-9599	0,31
138	Cu-3-9599	0,43
139	Cu-1-9932	-2,76
140	Cu-2-9932	-2,92
141	Cu-3-9932	-3,15
142	Cu-1-9970	-1,80
143	Cu-2-9970	-1,18
144	Cu-3-9970	0,31

2.1.6 Manganese



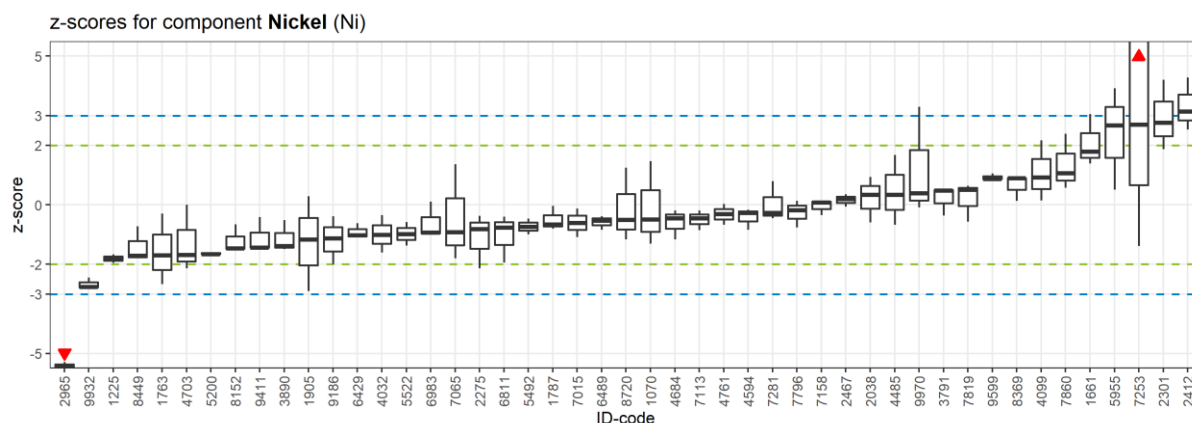
No.	Measurement ID	z-Score
1	Mn-1-1070	-0,80
2	Mn-2-1070	1,18
3	Mn-3-1070	-1,62
4	Mn-1-1225	-/-
5	Mn-2-1225	-2,55
6	Mn-3-1225	-2,68
7	Mn-1-1661	1,39
8	Mn-2-1661	1,79
9	Mn-3-1661	3,06
10	Mn-1-1763	6,22
11	Mn-2-1763	7,04
12	Mn-3-1763	1,74
13	Mn-1-1787	-1,35
14	Mn-2-1787	-1,05
15	Mn-3-1787	-1,36
16	Mn-1-1905	-2,86
17	Mn-2-1905	-1,84
18	Mn-3-1905	0,69
19	Mn-1-2038	-0,98
20	Mn-2-2038	0,43
21	Mn-3-2038	-1,52
22	Mn-1-2275	-2,72
23	Mn-2-2275	-1,95
24	Mn-3-2275	-1,59
25	Mn-1-2301	1,24
26	Mn-2-2301	3,54
27	Mn-3-2301	0,61
28	Mn-1-2412	1,67
29	Mn-2-2412	3,21
30	Mn-3-2412	2,65
31	Mn-1-2467	-0,55
32	Mn-2-2467	-0,82

No.	Measurement ID	z-Score
33	Mn-3-2467	-0,02
34	Mn-1-2965	-6,36
35	Mn-2-2965	-6,96
36	Mn-3-2965	-6,51
37	Mn-1-2992	-/-
38	Mn-2-2992	-/-
39	Mn-3-2992	-/-
40	Mn-1-3791	0,31
41	Mn-2-3791	0,44
42	Mn-3-3791	-0,59
43	Mn-1-3890	-2,08
44	Mn-2-3890	-2,05
45	Mn-3-3890	-0,86
46	Mn-1-4032	-1,70
47	Mn-2-4032	-0,08
48	Mn-3-4032	-1,18
49	Mn-1-4099	0,38
50	Mn-2-4099	1,36
51	Mn-3-4099	3,74
52	Mn-1-4485	-1,07
53	Mn-2-4485	1,02
54	Mn-3-4485	-0,13
55	Mn-1-4594	-0,50
56	Mn-2-4594	-1,00
57	Mn-3-4594	-0,47
58	Mn-1-4684	-1,13
59	Mn-2-4684	-1,40
60	Mn-3-4684	-0,83
61	Mn-1-4703	-1,96
62	Mn-2-4703	-0,17
63	Mn-3-4703	-2,52
64	Mn-1-4761	-0,64

No.	Measurement ID	z-Score
65	Mn-2-4761	0,10
66	Mn-3-4761	-0,92
67	Mn-1-5200	-2,25
68	Mn-2-5200	-2,24
69	Mn-3-5200	-2,31
70	Mn-1-5492	-1,37
71	Mn-2-5492	-2,13
72	Mn-3-5492	-2,74
73	Mn-1-5522	-0,70
74	Mn-2-5522	-1,62
75	Mn-3-5522	-1,31
76	Mn-1-5955	-0,05
77	Mn-2-5955	3,42
78	Mn-3-5955	2,32
79	Mn-1-6429	-1,50
80	Mn-2-6429	-1,06
81	Mn-3-6429	-1,65
82	Mn-1-6489	-1,19
83	Mn-2-6489	-0,86
84	Mn-3-6489	-0,60
85	Mn-1-6811	-0,65
86	Mn-2-6811	-1,21
87	Mn-3-6811	-2,42
88	Mn-1-6983	-1,79
89	Mn-2-6983	-0,80
90	Mn-3-6983	-2,05
91	Mn-1-7015	-0,82
92	Mn-2-7015	-1,79
93	Mn-3-7015	-/-
94	Mn-1-7065	-2,04
95	Mn-2-7065	-1,34
96	Mn-3-7065	0,92
97	Mn-1-7113	-1,74
98	Mn-2-7113	-1,57
99	Mn-3-7113	-0,66
100	Mn-1-7158	-0,57
101	Mn-2-7158	-0,72
102	Mn-3-7158	-0,91
103	Mn-1-7253	7,64
104	Mn-2-7253	-1,75

No.	Measurement ID	z-Score
105	Mn-3-7253	0,87
106	Mn-1-7281	-1,38
107	Mn-2-7281	-0,24
108	Mn-3-7281	-1,38
109	Mn-1-7796	-0,41
110	Mn-2-7796	-1,57
111	Mn-3-7796	-0,65
112	Mn-1-7819	-0,93
113	Mn-2-7819	-2,14
114	Mn-3-7819	-0,45
115	Mn-1-7860	0,94
116	Mn-2-7860	0,13
117	Mn-3-7860	2,04
118	Mn-1-8152	-1,21
119	Mn-2-8152	-1,46
120	Mn-3-8152	-0,69
121	Mn-1-8369	-0,57
122	Mn-2-8369	-0,58
123	Mn-3-8369	-1,23
124	Mn-1-8449	-1,85
125	Mn-2-8449	-2,71
126	Mn-3-8449	-1,19
127	Mn-1-8720	0,90
128	Mn-2-8720	-1,55
129	Mn-3-8720	-0,84
130	Mn-1-9186	-2,27
131	Mn-2-9186	-1,05
132	Mn-3-9186	-0,58
133	Mn-1-9411	-1,52
134	Mn-2-9411	-0,61
135	Mn-3-9411	-1,66
136	Mn-1-9599	0,77
137	Mn-2-9599	0,55
138	Mn-3-9599	0,60
139	Mn-1-9932	-4,35
140	Mn-2-9932	-4,84
141	Mn-3-9932	-5,01
142	Mn-1-9970	-1,45
143	Mn-2-9970	-1,04
144	Mn-3-9970	0,65

2.1.7 Nickel



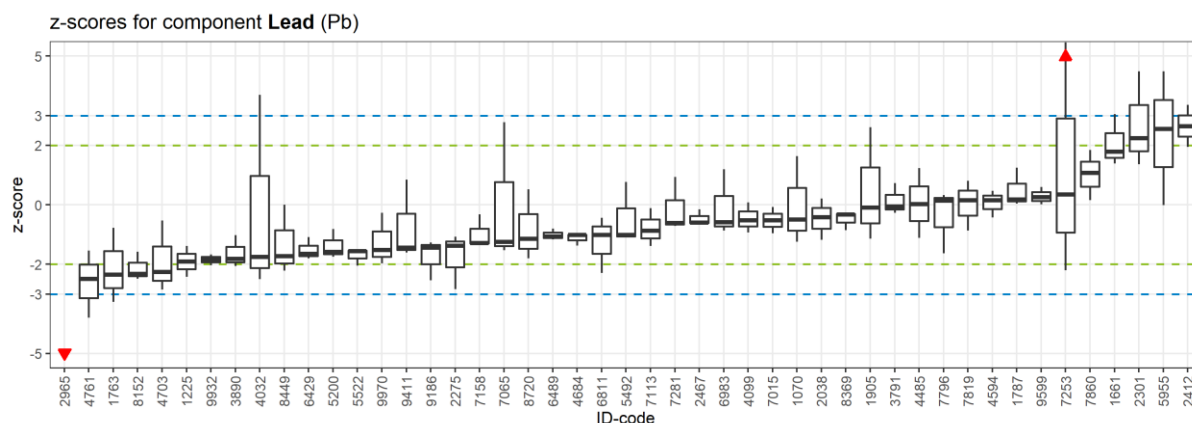
No.	Measurement ID	z-Score
1	Ni-1-1070	-0,49
2	Ni-2-1070	1,46
3	Ni-3-1070	-1,31
4	Ni-1-1225	-/-
5	Ni-2-1225	-1,67
6	Ni-3-1225	-1,95
7	Ni-1-1661	1,39
8	Ni-2-1661	1,79
9	Ni-3-1661	3,05
10	Ni-1-1763	-2,67
11	Ni-2-1763	-0,30
12	Ni-3-1763	-1,69
13	Ni-1-1787	-0,80
14	Ni-2-1787	-0,03
15	Ni-3-1787	-0,66
16	Ni-1-1905	-2,90
17	Ni-2-1905	-1,17
18	Ni-3-1905	0,28
19	Ni-1-2038	0,34
20	Ni-2-2038	0,94
21	Ni-3-2038	-0,60
22	Ni-1-2275	-2,13
23	Ni-2-2275	-0,81
24	Ni-3-2275	-0,38
25	Ni-1-2301	2,76
26	Ni-2-2301	4,20
27	Ni-3-2301	1,87
28	Ni-1-2412	2,53
29	Ni-2-2412	4,28
30	Ni-3-2412	3,14
31	Ni-1-2467	0,35
32	Ni-2-2467	-0,06

No.	Measurement ID	z-Score
33	Ni-3-2467	0,19
34	Ni-1-2965	-5,29
35	Ni-2-2965	-6,13
36	Ni-3-2965	-5,44
37	Ni-1-2992	-/-
38	Ni-2-2992	-/-
39	Ni-3-2992	-/-
40	Ni-1-3791	0,48
41	Ni-2-3791	0,52
42	Ni-3-3791	-0,37
43	Ni-1-3890	-1,38
44	Ni-2-3890	-1,48
45	Ni-3-3890	-0,51
46	Ni-1-4032	-1,61
47	Ni-2-4032	-0,35
48	Ni-3-4032	-1,01
49	Ni-1-4099	0,14
50	Ni-2-4099	0,93
51	Ni-3-4099	2,17
52	Ni-1-4485	-0,67
53	Ni-2-4485	1,68
54	Ni-3-4485	0,34
55	Ni-1-4594	-0,16
56	Ni-2-4594	-0,85
57	Ni-3-4594	-0,27
58	Ni-1-4684	-0,20
59	Ni-2-4684	-1,17
60	Ni-3-4684	-0,45
61	Ni-1-4703	-1,68
62	Ni-2-4703	0,00
63	Ni-3-4703	-2,13
64	Ni-1-4761	-0,31

No.	Measurement ID	z-Score
65	Ni-2-4761	0,03
66	Ni-3-4761	-0,67
67	Ni-1-5200	-1,59
68	Ni-2-5200	-1,66
69	Ni-3-5200	-1,67
70	Ni-1-5492	-0,46
71	Ni-2-5492	-1,00
72	Ni-3-5492	-0,74
73	Ni-1-5522	-0,58
74	Ni-2-5522	-1,37
75	Ni-3-5522	-0,98
76	Ni-1-5955	0,50
77	Ni-2-5955	3,92
78	Ni-3-5955	2,67
79	Ni-1-6429	-1,02
80	Ni-2-6429	-0,62
81	Ni-3-6429	-1,10
82	Ni-1-6489	-0,84
83	Ni-2-6489	-0,53
84	Ni-3-6489	-0,39
85	Ni-1-6811	-0,40
86	Ni-2-6811	-0,77
87	Ni-3-6811	-1,94
88	Ni-1-6983	-0,94
89	Ni-2-6983	0,10
90	Ni-3-6983	-0,98
91	Ni-1-7015	-0,13
92	Ni-2-7015	-1,09
93	Ni-3-7015	-/-
94	Ni-1-7065	-1,80
95	Ni-2-7065	-0,93
96	Ni-3-7065	1,36
97	Ni-1-7113	-0,45
98	Ni-2-7113	-0,86
99	Ni-3-7113	-0,20
100	Ni-1-7158	0,07
101	Ni-2-7158	0,15
102	Ni-3-7158	-0,35
103	Ni-1-7253	9,41
104	Ni-2-7253	-1,38

No.	Measurement ID	z-Score
105	Ni-3-7253	2,70
106	Ni-1-7281	-0,27
107	Ni-2-7281	0,79
108	Ni-3-7281	-0,45
109	Ni-1-7796	0,13
110	Ni-2-7796	-0,76
111	Ni-3-7796	-0,18
112	Ni-1-7819	0,63
113	Ni-2-7819	-0,57
114	Ni-3-7819	0,50
115	Ni-1-7860	1,06
116	Ni-2-7860	0,57
117	Ni-3-7860	2,38
118	Ni-1-8152	-1,49
119	Ni-2-8152	-1,46
120	Ni-3-8152	-0,66
121	Ni-1-8369	0,89
122	Ni-2-8369	0,90
123	Ni-3-8369	0,13
124	Ni-1-8449	-1,72
125	Ni-2-8449	-1,80
126	Ni-3-8449	-0,73
127	Ni-1-8720	1,24
128	Ni-2-8720	-1,17
129	Ni-3-8720	-0,50
130	Ni-1-9186	-2,00
131	Ni-2-9186	-1,13
132	Ni-3-9186	-0,38
133	Ni-1-9411	-1,43
134	Ni-2-9411	-0,42
135	Ni-3-9411	-1,44
136	Ni-1-9599	1,05
137	Ni-2-9599	0,85
138	Ni-3-9599	0,88
139	Ni-1-9932	-2,44
140	Ni-2-9932	-2,78
141	Ni-3-9932	-2,76
142	Ni-1-9970	-0,09
143	Ni-2-9970	0,39
144	Ni-3-9970	3,30

2.1.8 Lead



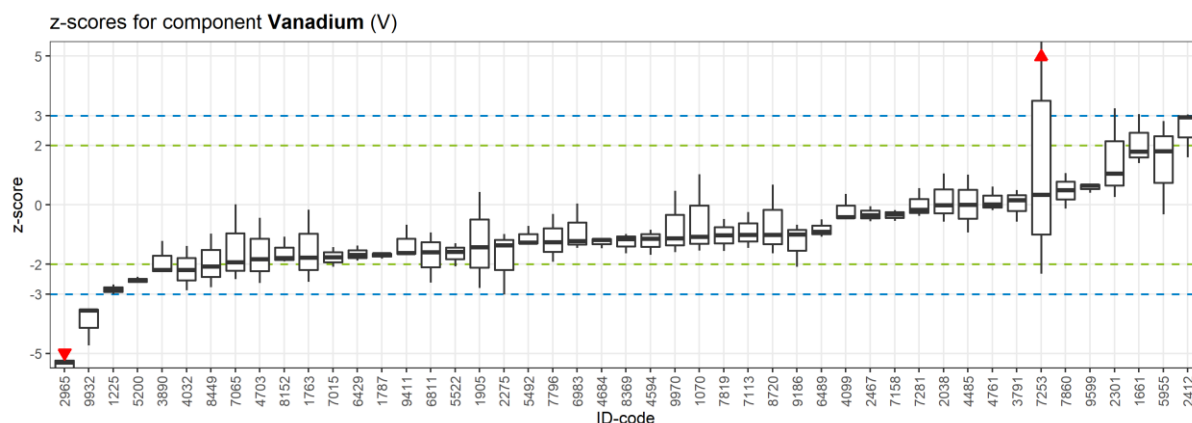
No.	Measurement ID	z-Score
1	Pb-1-1070	-0,49
2	Pb-2-1070	1,63
3	Pb-3-1070	-1,24
4	Pb-1-1225	-/-
5	Pb-2-1225	-2,42
6	Pb-3-1225	-1,39
7	Pb-1-1661	1,39
8	Pb-2-1661	1,78
9	Pb-3-1661	3,05
10	Pb-1-1763	-3,26
11	Pb-2-1763	-0,77
12	Pb-3-1763	-2,34
13	Pb-1-1787	0,19
14	Pb-2-1787	1,25
15	Pb-3-1787	0,04
16	Pb-1-1905	-1,14
17	Pb-2-1905	-0,10
18	Pb-3-1905	2,61
19	Pb-1-2038	-0,42
20	Pb-2-2038	0,20
21	Pb-3-2038	-1,18
22	Pb-1-2275	-2,84
23	Pb-2-2275	-1,37
24	Pb-3-2275	-1,08
25	Pb-1-2301	2,24
26	Pb-2-2301	4,48
27	Pb-3-2301	1,36
28	Pb-1-2412	1,94
29	Pb-2-2412	3,36
30	Pb-3-2412	2,65
31	Pb-1-2467	-0,15
32	Pb-2-2467	-0,60

No.	Measurement ID	z-Score
33	Pb-3-2467	-0,62
34	Pb-1-2965	-7,94
35	Pb-2-2965	-8,34
36	Pb-3-2965	-7,96
37	Pb-1-2992	-/-
38	Pb-2-2992	-/-
39	Pb-3-2992	-/-
40	Pb-1-3791	-0,05
41	Pb-2-3791	0,73
42	Pb-3-3791	-0,27
43	Pb-1-3890	-2,06
44	Pb-2-3890	-1,81
45	Pb-3-3890	-1,02
46	Pb-1-4032	-2,50
47	Pb-2-4032	3,69
48	Pb-3-4032	-1,75
49	Pb-1-4099	-0,94
50	Pb-2-4099	-0,52
51	Pb-3-4099	0,07
52	Pb-1-4485	-1,12
53	Pb-2-4485	1,23
54	Pb-3-4485	0,02
55	Pb-1-4594	0,46
56	Pb-2-4594	-0,43
57	Pb-3-4594	0,16
58	Pb-1-4684	-1,38
59	Pb-2-4684	-1,02
60	Pb-3-4684	-1,01
61	Pb-1-4703	-2,25
62	Pb-2-4703	-0,53
63	Pb-3-4703	-2,85
64	Pb-1-4761	-1,54

No.	Measurement ID	z-Score
65	Pb-2-4761	-2,48
66	Pb-3-4761	-3,79
67	Pb-1-5200	-0,81
68	Pb-2-5200	-1,74
69	Pb-3-5200	-1,58
70	Pb-1-5492	0,77
71	Pb-2-5492	-1,01
72	Pb-3-5492	-1,11
73	Pb-1-5522	-1,52
74	Pb-2-5522	-2,05
75	Pb-3-5522	-1,55
76	Pb-1-5955	-0,01
77	Pb-2-5955	4,49
78	Pb-3-5955	2,56
79	Pb-1-6429	-1,65
80	Pb-2-6429	-1,09
81	Pb-3-6429	-1,80
82	Pb-1-6489	-1,17
83	Pb-2-6489	-1,06
84	Pb-3-6489	-0,80
85	Pb-1-6811	-0,44
86	Pb-2-6811	-1,01
87	Pb-3-6811	-2,29
88	Pb-1-6983	-0,58
89	Pb-2-6983	1,19
90	Pb-3-6983	-0,87
91	Pb-1-7015	-0,08
92	Pb-2-7015	-0,96
93	Pb-3-7015	-/-
94	Pb-1-7065	-1,53
95	Pb-2-7065	-1,25
96	Pb-3-7065	2,77
97	Pb-1-7113	-1,38
98	Pb-2-7113	-0,87
99	Pb-3-7113	-0,11
100	Pb-1-7158	-1,31
101	Pb-2-7158	-0,33
102	Pb-3-7158	-1,29
103	Pb-1-7253	5,46
104	Pb-2-7253	-2,21

No.	Measurement ID	z-Score
105	Pb-3-7253	0,35
106	Pb-1-7281	-0,71
107	Pb-2-7281	0,93
108	Pb-3-7281	-0,61
109	Pb-1-7796	0,33
110	Pb-2-7796	-1,64
111	Pb-3-7796	0,15
112	Pb-1-7819	0,16
113	Pb-2-7819	-0,87
114	Pb-3-7819	0,80
115	Pb-1-7860	1,07
116	Pb-2-7860	0,16
117	Pb-3-7860	1,84
118	Pb-1-8152	-2,49
119	Pb-2-8152	-2,31
120	Pb-3-8152	-1,58
121	Pb-1-8369	-0,33
122	Pb-2-8369	-0,29
123	Pb-3-8369	-0,86
124	Pb-1-8449	-2,21
125	Pb-2-8449	-1,72
126	Pb-3-8449	0,00
127	Pb-1-8720	0,52
128	Pb-2-8720	-1,80
129	Pb-3-8720	-1,14
130	Pb-1-9186	-2,54
131	Pb-2-9186	-1,44
132	Pb-3-9186	-1,26
133	Pb-1-9411	-1,44
134	Pb-2-9411	0,85
135	Pb-3-9411	-1,60
136	Pb-1-9599	0,26
137	Pb-2-9599	0,01
138	Pb-3-9599	0,60
139	Pb-1-9932	-1,67
140	Pb-2-9932	-2,04
141	Pb-3-9932	-1,83
142	Pb-1-9970	-1,98
143	Pb-2-9970	-1,51
144	Pb-3-9970	-0,28

2.1.9 Vanadium



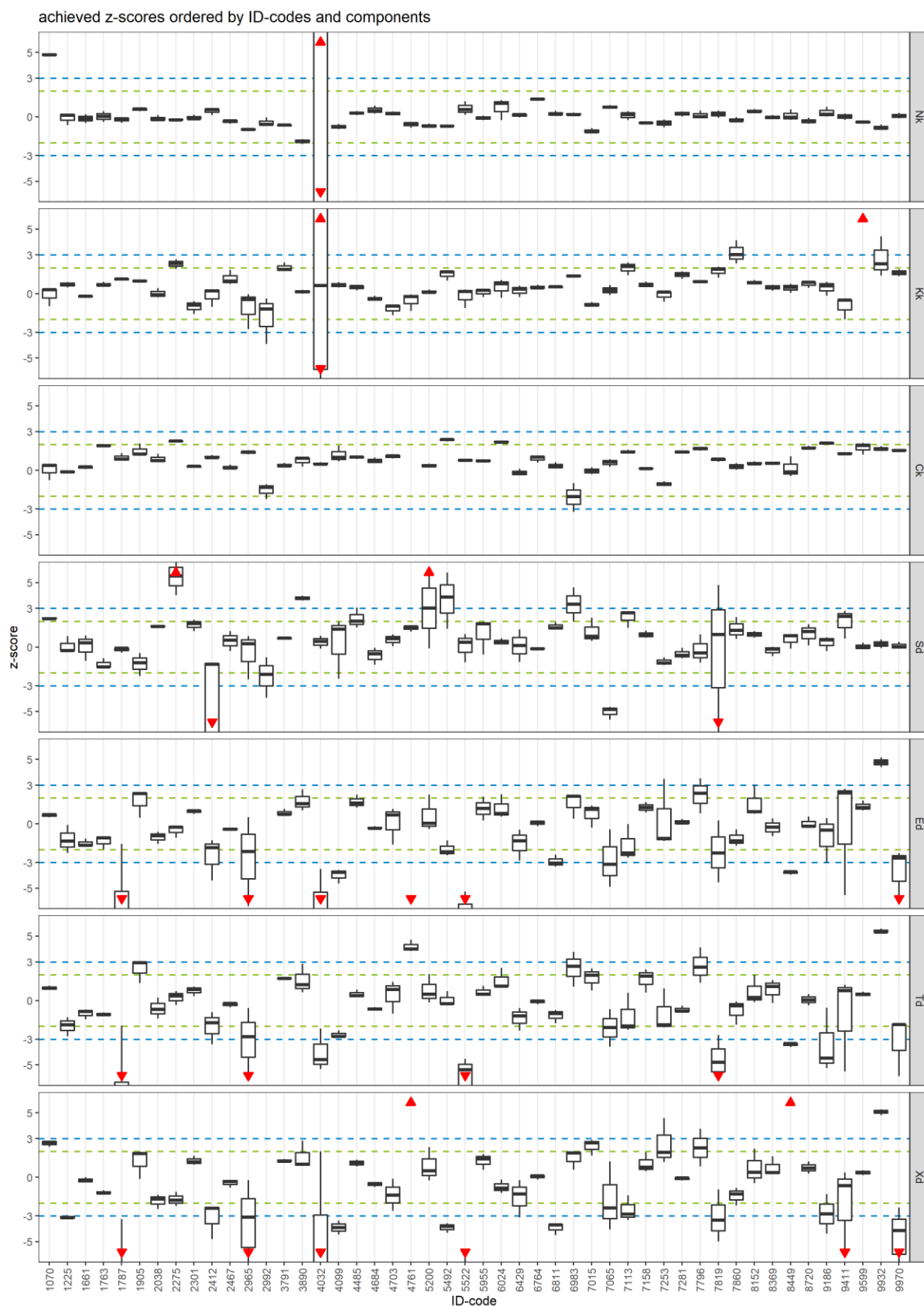
No.	Measurement ID	z-Score
1	V-1-1070	-1,07
2	V-2-1070	1,03
3	V-3-1070	-1,54
4	V-1-1225	-/-
5	V-2-1225	-3,01
6	V-3-1225	-2,69
7	V-1-1661	1,40
8	V-2-1661	1,79
9	V-3-1661	3,05
10	V-1-1763	-2,59
11	V-2-1763	-0,16
12	V-3-1763	-1,78
13	V-1-1787	-1,82
14	V-2-1787	-1,62
15	V-3-1787	-1,66
16	V-1-1905	-2,80
17	V-2-1905	-1,42
18	V-3-1905	0,43
19	V-1-2038	-0,01
20	V-2-2038	1,05
21	V-3-2038	-0,57
22	V-1-2275	-3,02
23	V-2-2275	-1,36
24	V-3-2275	-0,99
25	V-1-2301	1,05
26	V-2-2301	3,24
27	V-3-2301	0,25
28	V-1-2412	1,59
29	V-2-2412	3,03
30	V-3-2412	2,94
31	V-1-2467	-0,35
32	V-2-2467	-0,56

No.	Measurement ID	z-Score
33	V-3-2467	-0,05
34	V-1-2965	-5,16
35	V-2-2965	-6,02
36	V-3-2965	-5,30
37	V-1-2992	-/-
38	V-2-2992	-/-
39	V-3-2992	-/-
40	V-1-3791	0,16
41	V-2-3791	0,49
42	V-3-3791	-0,57
43	V-1-3890	-2,26
44	V-2-3890	-2,19
45	V-3-3890	-1,22
46	V-1-4032	-2,88
47	V-2-4032	-1,39
48	V-3-4032	-2,19
49	V-1-4099	-0,47
50	V-2-4099	-0,42
51	V-3-4099	0,37
52	V-1-4485	-0,93
53	V-2-4485	1,01
54	V-3-4485	0,00
55	V-1-4594	-0,84
56	V-2-4594	-1,69
57	V-3-4594	-1,14
58	V-1-4684	-1,18
59	V-2-4684	-1,46
60	V-3-4684	-1,12
61	V-1-4703	-1,83
62	V-2-4703	-0,44
63	V-3-4703	-2,63
64	V-1-4761	0,01

No.	Measurement ID	z-Score
65	V-2-4761	0,61
66	V-3-4761	-0,18
67	V-1-5200	-2,61
68	V-2-5200	-2,56
69	V-3-5200	-2,42
70	V-1-5492	-0,71
71	V-2-5492	-1,32
72	V-3-5492	-1,27
73	V-1-5522	-1,29
74	V-2-5522	-2,08
75	V-3-5522	-1,59
76	V-1-5955	-0,33
77	V-2-5955	2,81
78	V-3-5955	1,80
79	V-1-6429	-1,68
80	V-2-6429	-1,37
81	V-3-6429	-1,88
82	V-1-6489	-1,07
83	V-2-6489	-0,90
84	V-3-6489	-0,49
85	V-1-6811	-0,93
86	V-2-6811	-1,59
87	V-3-6811	-2,62
88	V-1-6983	-1,22
89	V-2-6983	0,05
90	V-3-6983	-1,45
91	V-1-7015	-1,43
92	V-2-7015	-2,09
93	V-3-7015	-/-
94	V-1-7065	-2,50
95	V-2-7065	-1,93
96	V-3-7065	0,02
97	V-1-7113	-1,45
98	V-2-7113	-1,01
99	V-3-7113	-0,25
100	V-1-7158	-0,18
101	V-2-7158	-0,33
102	V-3-7158	-0,55
103	V-1-7253	6,66
104	V-2-7253	-2,32

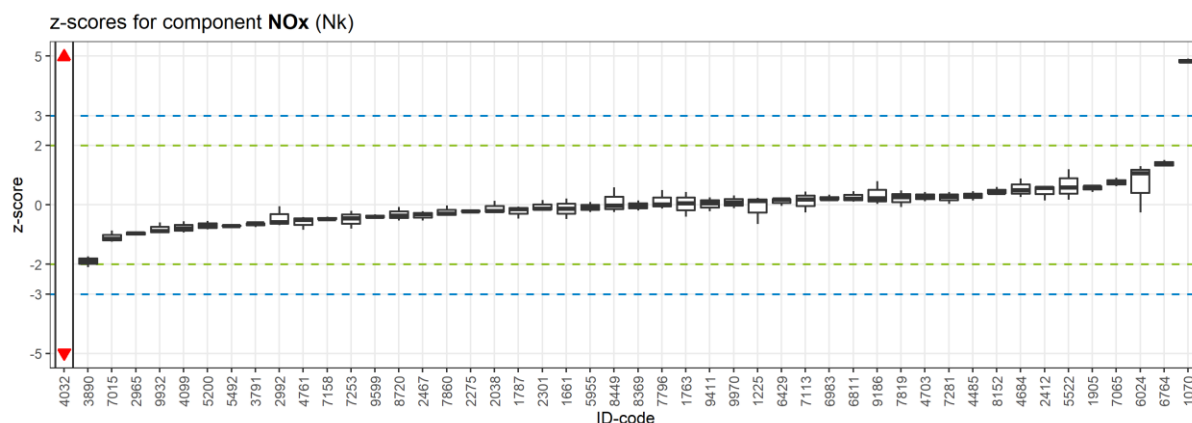
No.	Measurement ID	z-Score
105	V-3-7253	0,34
106	V-1-7281	-0,37
107	V-2-7281	0,56
108	V-3-7281	-0,17
109	V-1-7796	-0,31
110	V-2-7796	-1,92
111	V-3-7796	-1,25
112	V-1-7819	-1,02
113	V-2-7819	-1,56
114	V-3-7819	-0,48
115	V-1-7860	0,50
116	V-2-7860	-0,13
117	V-3-7860	1,06
118	V-1-8152	-1,79
119	V-2-8152	-1,90
120	V-3-8152	-1,08
121	V-1-8369	-1,15
122	V-2-8369	-0,98
123	V-3-8369	-1,64
124	V-1-8449	-2,77
125	V-2-8449	-2,08
126	V-3-8449	-0,97
127	V-1-8720	0,68
128	V-2-8720	-1,63
129	V-3-8720	-1,01
130	V-1-9186	-2,09
131	V-2-9186	-1,00
132	V-3-9186	-0,67
133	V-1-9411	-1,67
134	V-2-9411	-0,67
135	V-3-9411	-1,62
136	V-1-9599	0,71
137	V-2-9599	0,41
138	V-3-9599	0,65
139	V-1-9932	-4,73
140	V-2-9932	-3,50
141	V-3-9932	-3,55
142	V-1-9970	-1,59
143	V-2-9970	-1,13
144	V-3-9970	0,46

2.2 Gas (Substance Range G)



Scheme 2: z-scores for the substance range G

2.2.1 Nitrogen Oxides



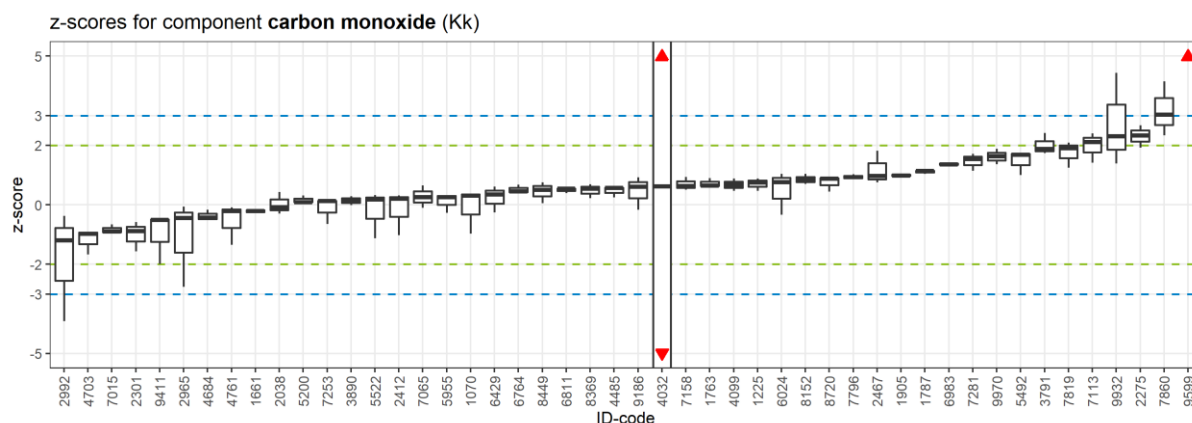
No.	Measurement ID	z-Score
1	Nk-1-1070	4,92
2	Nk-2-1070	4,82
3	Nk-3-1070	4,77
4	Nk-1-1225	-0,64
5	Nk-2-1225	0,13
6	Nk-3-1225	0,23
7	Nk-1-1661	-0,48
8	Nk-2-1661	-0,12
9	Nk-3-1661	0,20
10	Nk-1-1763	-0,40
11	Nk-2-1763	0,05
12	Nk-3-1763	0,43
13	Nk-1-1787	-0,14
14	Nk-2-1787	-0,06
15	Nk-3-1787	-0,46
16	Nk-1-1905	0,43
17	Nk-2-1905	0,61
18	Nk-3-1905	0,62
19	Nk-1-2038	-0,20
20	Nk-2-2038	-0,26
21	Nk-3-2038	0,13
22	Nk-1-2275	-0,26
23	Nk-2-2275	-0,22
24	Nk-3-2275	-0,17
25	Nk-1-2301	-0,13
26	Nk-2-2301	-0,17
27	Nk-3-2301	0,16
28	Nk-1-2412	0,15
29	Nk-2-2412	0,63
30	Nk-3-2412	0,57
31	Nk-1-2467	-0,31
32	Nk-2-2467	-0,53

No.	Measurement ID	z-Score
33	Nk-3-2467	-0,22
34	Nk-1-2965	-0,96
35	Nk-2-2965	-0,91
36	Nk-3-2965	-1,03
37	Nk-1-2992	-0,58
38	Nk-2-2992	-0,68
39	Nk-3-2992	-0,05
40	Nk-1-3791	-0,62
41	Nk-2-3791	-0,63
42	Nk-3-3791	-0,75
43	Nk-1-3890	-2,10
44	Nk-2-3890	-1,73
45	Nk-3-3890	-1,88
46	Nk-1-4032	-10,34
47	Nk-2-4032	-10,79
48	Nk-3-4032	39,71
49	Nk-1-4099	-0,56
50	Nk-2-4099	-0,94
51	Nk-3-4099	-0,79
52	Nk-1-4485	0,15
53	Nk-2-4485	0,31
54	Nk-3-4485	0,45
55	Nk-1-4684	0,49
56	Nk-2-4684	0,26
57	Nk-3-4684	0,88
58	Nk-1-4703	0,42
59	Nk-2-4703	0,27
60	Nk-3-4703	0,12
61	Nk-1-4761	-0,50
62	Nk-2-4761	-0,42
63	Nk-3-4761	-0,84
64	Nk-1-5200	-0,54

No.	Measurement ID	z-Score
65	Nk-2-5200	-0,71
66	Nk-3-5200	-0,83
67	Nk-1-5492	-0,73
68	Nk-2-5492	-0,71
69	Nk-3-5492	-0,68
70	Nk-1-5522	1,20
71	Nk-2-5522	0,58
72	Nk-3-5522	0,16
73	Nk-1-5955	-0,10
74	Nk-2-5955	0,10
75	Nk-3-5955	-0,25
76	Nk-1-6024	-0,26
77	Nk-2-6024	1,30
78	Nk-3-6024	1,07
79	Nk-4-6024	-/-
80	Nk-1-6429	-0,04
81	Nk-2-6429	0,18
82	Nk-3-6429	0,21
83	Nk-1-6764	1,28
84	Nk-2-6764	1,50
85	Nk-3-6764	1,37
86	Nk-1-6811	0,21
87	Nk-2-6811	0,46
88	Nk-3-6811	0,11
89	Nk-1-6983	0,33
90	Nk-2-6983	0,18
91	Nk-3-6983	0,19
92	Nk-1-7015	-0,87
93	Nk-2-7015	-1,14
94	Nk-3-7015	-1,24
95	Nk-1-7065	0,75
96	Nk-2-7065	0,62
97	Nk-3-7065	0,91
98	Nk-1-7113	0,44
99	Nk-2-7113	0,19
100	Nk-3-7113	-0,26
101	Nk-1-7158	-0,47
102	Nk-2-7158	-0,49
103	Nk-3-7158	-0,41
104	Nk-1-7253	-0,45
105	Nk-2-7253	-0,20

No.	Measurement ID	z-Score
106	Nk-3-7253	-0,81
107	Nk-1-7281	0,03
108	Nk-2-7281	0,28
109	Nk-3-7281	0,42
110	Nk-1-7796	-0,12
111	Nk-2-7796	0,02
112	Nk-3-7796	0,49
113	Nk-1-7819	0,48
114	Nk-2-7819	0,26
115	Nk-3-7819	-0,07
116	Nk-1-7860	-0,30
117	Nk-2-7860	-0,36
118	Nk-3-7860	-0,03
119	Nk-1-8152	0,41
120	Nk-2-8152	0,38
121	Nk-3-8152	0,60
122	Nk-1-8369	-0,19
123	Nk-2-8369	-0,03
124	Nk-3-8369	0,14
125	Nk-1-8449	-0,24
126	Nk-2-8449	-0,03
127	Nk-3-8449	0,58
128	Nk-1-8720	-0,37
129	Nk-2-8720	-0,53
130	Nk-3-8720	-0,08
131	Nk-1-9186	0,79
132	Nk-2-9186	0,03
133	Nk-3-9186	0,22
134	Nk-1-9411	0,05
135	Nk-2-9411	0,25
136	Nk-3-9411	-0,22
137	Nk-1-9599	-0,40
138	Nk-2-9599	-0,32
139	Nk-3-9599	-0,46
140	Nk-1-9932	-0,96
141	Nk-2-9932	-0,88
142	Nk-3-9932	-0,59
143	Nk-1-9970	0,08
144	Nk-2-9970	-0,12
145	Nk-3-9970	0,31

2.2.2 Carbon Monoxide



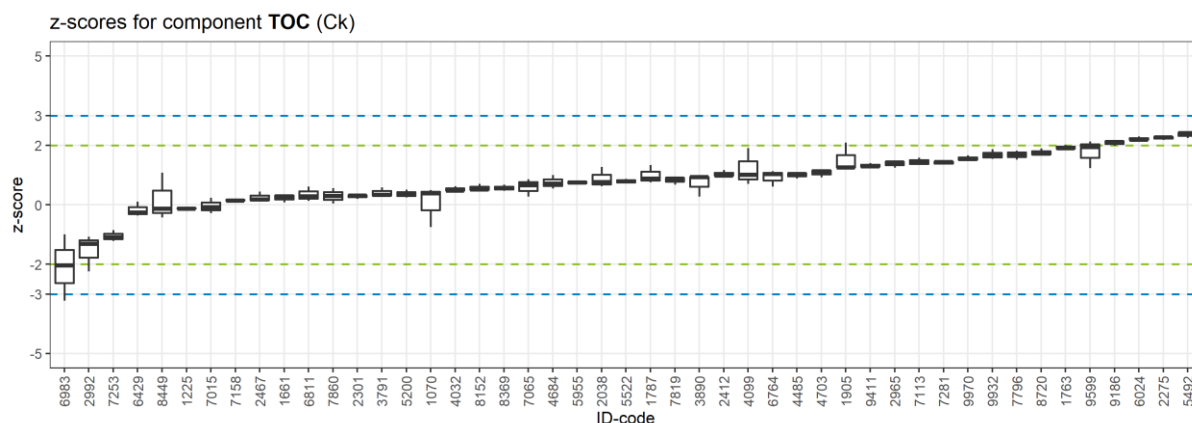
No.	Measurement ID	z-Score
1	Kk-1-1070	0,38
2	Kk-2-1070	0,32
3	Kk-3-1070	-0,97
4	Kk-1-1225	0,46
5	Kk-2-1225	0,88
6	Kk-3-1225	0,76
7	Kk-1-1661	-0,28
8	Kk-2-1661	-0,16
9	Kk-3-1661	-0,21
10	Kk-1-1763	0,63
11	Kk-2-1763	0,90
12	Kk-3-1763	0,65
13	Kk-1-1787	1,14
14	Kk-2-1787	1,14
15	Kk-3-1787	1,04
16	Kk-1-1905	0,99
17	Kk-2-1905	0,96
18	Kk-3-1905	1,04
19	Kk-1-2038	-0,29
20	Kk-2-2038	0,43
21	Kk-3-2038	-0,08
22	Kk-1-2275	2,34
23	Kk-2-2275	1,92
24	Kk-3-2275	2,67
25	Kk-1-2301	-1,57
26	Kk-2-2301	-0,58
27	Kk-3-2301	-0,88
28	Kk-1-2412	-1,02
29	Kk-2-2412	0,21
30	Kk-3-2412	0,31
31	Kk-1-2467	1,82
32	Kk-2-2467	0,97

No.	Measurement ID	z-Score
33	Kk-3-2467	0,75
34	Kk-1-2965	-0,07
35	Kk-2-2965	-0,45
36	Kk-3-2965	-2,75
37	Kk-1-2992	-3,92
38	Kk-2-2992	-1,19
39	Kk-3-2992	-0,37
40	Kk-1-3791	1,74
41	Kk-2-3791	2,42
42	Kk-3-3791	1,87
43	Kk-1-3890	0,15
44	Kk-2-3890	-0,01
45	Kk-3-3890	0,29
46	Kk-1-4032	-12,35
47	Kk-2-4032	23,60
48	Kk-3-4032	0,62
49	Kk-1-4099	0,89
50	Kk-2-4099	0,68
51	Kk-3-4099	0,46
52	Kk-1-4485	0,57
53	Kk-2-4485	0,59
54	Kk-3-4485	0,25
55	Kk-1-4684	-0,51
56	Kk-2-4684	-0,43
57	Kk-3-4684	-0,17
58	Kk-1-4703	-0,91
59	Kk-2-4703	-0,96
60	Kk-3-4703	-1,67
61	Kk-1-4761	-1,35
62	Kk-2-4761	-0,09
63	Kk-3-4761	-0,21
64	Kk-1-5200	0,31

No.	Measurement ID	z-Score
65	Kk-2-5200	0,09
66	Kk-3-5200	0,10
67	Kk-1-5492	0,99
68	Kk-2-5492	1,69
69	Kk-3-5492	1,74
70	Kk-1-5522	-1,12
71	Kk-2-5522	0,18
72	Kk-3-5522	0,32
73	Kk-1-5955	0,26
74	Kk-2-5955	-0,27
75	Kk-3-5955	0,32
76	Kk-1-6024	1,04
77	Kk-2-6024	0,77
78	Kk-3-6024	-0,34
79	Kk-4-6024	-/-
80	Kk-1-6429	0,61
81	Kk-2-6429	0,35
82	Kk-3-6429	-0,26
83	Kk-1-6764	0,67
84	Kk-2-6764	0,46
85	Kk-3-6764	0,40
86	Kk-1-6811	0,54
87	Kk-2-6811	0,40
88	Kk-3-6811	0,56
89	Kk-1-6983	1,37
90	Kk-2-6983	1,32
91	Kk-3-6983	1,42
92	Kk-1-7015	-0,66
93	Kk-2-7015	-0,89
94	Kk-3-7015	-0,96
95	Kk-1-7065	-0,11
96	Kk-2-7065	0,65
97	Kk-3-7065	0,26
98	Kk-1-7113	2,12
99	Kk-2-7113	2,40
100	Kk-3-7113	1,41
101	Kk-1-7158	0,94
102	Kk-2-7158	0,64
103	Kk-3-7158	0,51
104	Kk-1-7253	0,14
105	Kk-2-7253	-0,64

No.	Measurement ID	z-Score
106	Kk-3-7253	0,13
107	Kk-1-7281	1,14
108	Kk-2-7281	1,54
109	Kk-3-7281	1,71
110	Kk-1-7796	1,03
111	Kk-2-7796	0,86
112	Kk-3-7796	0,93
113	Kk-1-7819	2,08
114	Kk-2-7819	1,24
115	Kk-3-7819	1,90
116	Kk-1-7860	2,34
117	Kk-2-7860	4,14
118	Kk-3-7860	3,04
119	Kk-1-8152	1,04
120	Kk-2-8152	0,84
121	Kk-3-8152	0,70
122	Kk-1-8369	0,69
123	Kk-2-8369	0,54
124	Kk-3-8369	0,22
125	Kk-1-8449	0,50
126	Kk-2-8449	0,06
127	Kk-3-8449	0,76
128	Kk-1-8720	0,89
129	Kk-2-8720	0,89
130	Kk-3-8720	0,45
131	Kk-1-9186	-0,17
132	Kk-2-9186	0,61
133	Kk-3-9186	0,92
134	Kk-1-9411	-2,00
135	Kk-2-9411	-0,48
136	Kk-3-9411	-0,50
137	Kk-1-9599	20,37
138	Kk-2-9599	20,90
139	Kk-3-9599	20,08
140	Kk-1-9932	4,43
141	Kk-2-9932	1,39
142	Kk-3-9932	2,31
143	Kk-1-9970	1,88
144	Kk-2-9970	1,36
145	Kk-3-9970	1,64

2.2.3 TOC



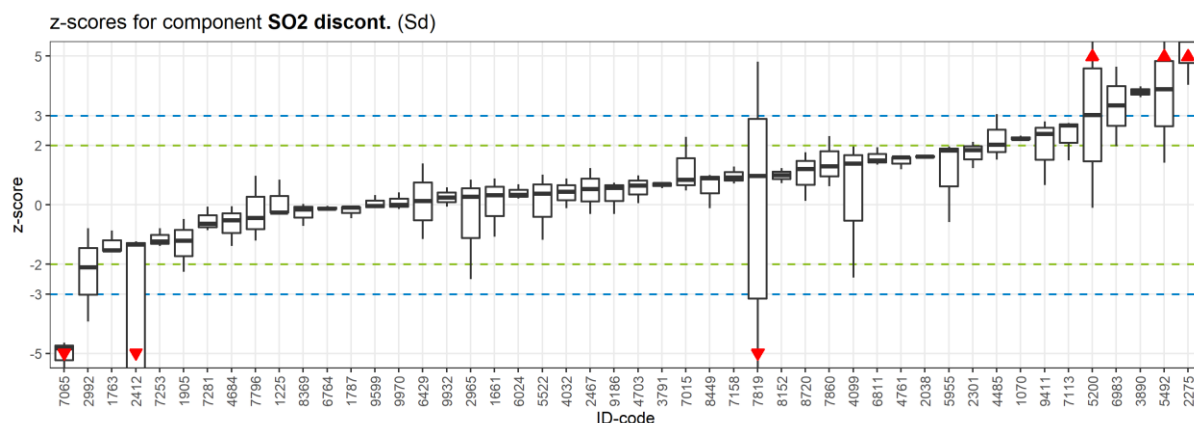
No.	Measurement ID	z-Score
1	Ck-1-1070	-0,75
2	Ck-2-1070	0,39
3	Ck-3-1070	0,50
4	Ck-1-1225	-0,12
5	Ck-2-1225	-0,14
6	Ck-3-1225	-0,08
7	Ck-1-1661	0,08
8	Ck-2-1661	0,34
9	Ck-3-1661	0,29
10	Ck-1-1763	1,91
11	Ck-2-1763	2,01
12	Ck-3-1763	1,89
13	Ck-1-1787	0,76
14	Ck-2-1787	0,88
15	Ck-3-1787	1,34
16	Ck-1-1905	2,08
17	Ck-2-1905	1,26
18	Ck-3-1905	1,26
19	Ck-1-2038	0,76
20	Ck-2-2038	1,27
21	Ck-3-2038	0,62
22	Ck-1-2275	2,18
23	Ck-2-2275	2,27
24	Ck-3-2275	2,30
25	Ck-1-2301	0,32
26	Ck-2-2301	0,20
27	Ck-3-2301	0,32
28	Ck-1-2412	1,17
29	Ck-2-2412	0,98
30	Ck-3-2412	0,99
31	Ck-1-2467	0,14
32	Ck-2-2467	0,18

No.	Measurement ID	z-Score
33	Ck-3-2467	0,44
34	Ck-1-2965	1,24
35	Ck-2-2965	1,42
36	Ck-3-2965	1,48
37	Ck-1-2992	-2,25
38	Ck-2-2992	-1,31
39	Ck-3-2992	-1,08
40	Ck-1-3791	0,29
41	Ck-2-3791	0,34
42	Ck-3-3791	0,58
43	Ck-1-3890	0,27
44	Ck-2-3890	0,94
45	Ck-3-3890	0,94
46	Ck-1-4032	0,47
47	Ck-2-4032	0,62
48	Ck-3-4032	0,48
49	Ck-1-4099	1,91
50	Ck-2-4099	0,70
51	Ck-3-4099	1,01
52	Ck-1-4485	0,88
53	Ck-2-4485	1,04
54	Ck-3-4485	1,09
55	Ck-1-4684	0,55
56	Ck-2-4684	1,00
57	Ck-3-4684	0,72
58	Ck-1-4703	0,92
59	Ck-2-4703	1,19
60	Ck-3-4703	1,13
61	Ck-1-4761	-/-
62	Ck-2-4761	-/-
63	Ck-3-4761	-/-
64	Ck-1-5200	0,35

No.	Measurement ID	z-Score
65	Ck-2-5200	0,51
66	Ck-3-5200	0,24
67	Ck-1-5492	2,41
68	Ck-2-5492	2,24
69	Ck-3-5492	2,44
70	Ck-1-5522	0,71
71	Ck-2-5522	0,79
72	Ck-3-5522	0,87
73	Ck-1-5955	0,75
74	Ck-2-5955	0,82
75	Ck-3-5955	0,70
76	Ck-1-6024	2,29
77	Ck-2-6024	2,18
78	Ck-3-6024	2,19
79	Ck-4-6024	-/-
80	Ck-1-6429	-0,36
81	Ck-2-6429	-0,26
82	Ck-3-6429	0,11
83	Ck-1-6764	0,61
84	Ck-2-6764	1,03
85	Ck-3-6764	1,13
86	Ck-1-6811	0,29
87	Ck-2-6811	0,14
88	Ck-3-6811	0,62
89	Ck-1-6983	-2,03
90	Ck-2-6983	-0,99
91	Ck-3-6983	-3,23
92	Ck-1-7015	-0,07
93	Ck-2-7015	-0,29
94	Ck-3-7015	0,24
95	Ck-1-7065	0,85
96	Ck-2-7065	0,27
97	Ck-3-7065	0,67
98	Ck-1-7113	1,58
99	Ck-2-7113	1,43
100	Ck-3-7113	1,33
101	Ck-1-7158	0,15
102	Ck-2-7158	0,14
103	Ck-3-7158	0,19
104	Ck-1-7253	-1,22
105	Ck-2-7253	-1,09

No.	Measurement ID	z-Score
106	Ck-3-7253	-0,86
107	Ck-1-7281	1,48
108	Ck-2-7281	1,35
109	Ck-3-7281	1,43
110	Ck-1-7796	1,82
111	Ck-2-7796	1,51
112	Ck-3-7796	1,71
113	Ck-1-7819	0,67
114	Ck-2-7819	0,93
115	Ck-3-7819	0,88
116	Ck-1-7860	0,04
117	Ck-2-7860	0,30
118	Ck-3-7860	0,56
119	Ck-1-8152	0,50
120	Ck-2-8152	0,70
121	Ck-3-8152	0,52
122	Ck-1-8369	0,56
123	Ck-2-8369	0,46
124	Ck-3-8369	0,67
125	Ck-1-8449	1,08
126	Ck-2-8449	-0,13
127	Ck-3-8449	-0,43
128	Ck-1-8720	1,89
129	Ck-2-8720	1,72
130	Ck-3-8720	1,68
131	Ck-1-9186	2,16
132	Ck-2-9186	1,98
133	Ck-3-9186	2,11
134	Ck-1-9411	1,30
135	Ck-2-9411	1,40
136	Ck-3-9411	1,27
137	Ck-1-9599	1,94
138	Ck-2-9599	2,12
139	Ck-3-9599	1,23
140	Ck-1-9932	1,64
141	Ck-2-9932	1,87
142	Ck-3-9932	1,55
143	Ck-1-9970	1,55
144	Ck-2-9970	1,49
145	Ck-3-9970	1,65

2.2.4 Sulphur Dioxide



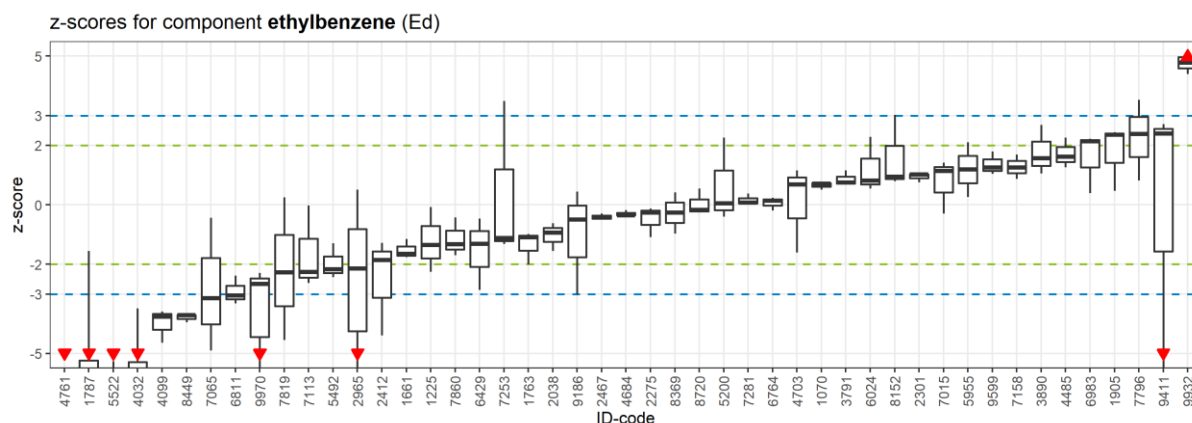
No.	Measurement ID	z-Score
1	Sd-1-1070	2,21
2	Sd-2-1070	2,19
3	Sd-3-1070	2,32
4	Sd-1-1225	-0,25
5	Sd-2-1225	-0,27
6	Sd-3-1225	0,85
7	Sd-1-1661	0,33
8	Sd-2-1661	-1,07
9	Sd-3-1661	0,88
10	Sd-1-1763	-0,87
11	Sd-2-1763	-1,53
12	Sd-3-1763	-1,56
13	Sd-1-1787	-0,09
14	Sd-2-1787	-0,07
15	Sd-3-1787	-0,45
16	Sd-1-1905	-2,25
17	Sd-2-1905	-1,20
18	Sd-3-1905	-0,48
19	Sd-1-2038	1,61
20	Sd-2-2038	1,60
21	Sd-3-2038	1,65
22	Sd-1-2275	5,52
23	Sd-2-2275	6,89
24	Sd-3-2275	4,03
25	Sd-1-2301	1,23
26	Sd-2-2301	2,11
27	Sd-3-2301	1,84
28	Sd-1-2412	-13,21
29	Sd-2-2412	-1,24
30	Sd-3-2412	-1,33
31	Sd-1-2467	1,23
32	Sd-2-2467	0,53

No.	Measurement ID	z-Score
33	Sd-3-2467	-0,31
34	Sd-1-2965	0,27
35	Sd-2-2965	-2,50
36	Sd-3-2965	0,85
37	Sd-1-2992	-0,79
38	Sd-2-2992	-2,10
39	Sd-3-2992	-3,93
40	Sd-1-3791	0,75
41	Sd-2-3791	0,71
42	Sd-3-3791	0,56
43	Sd-1-3890	3,98
44	Sd-2-3890	3,79
45	Sd-3-3890	3,61
46	Sd-1-4032	0,88
47	Sd-2-4032	0,44
48	Sd-3-4032	-0,12
49	Sd-1-4099	1,96
50	Sd-2-4099	1,39
51	Sd-3-4099	-2,46
52	Sd-1-4485	1,52
53	Sd-2-4485	3,05
54	Sd-3-4485	2,02
55	Sd-1-4684	-0,05
56	Sd-2-4684	-1,38
57	Sd-3-4684	-0,52
58	Sd-1-4703	0,05
59	Sd-2-4703	0,99
60	Sd-3-4703	0,65
61	Sd-1-4761	1,19
62	Sd-2-4761	1,61
63	Sd-3-4761	1,59
64	Sd-1-5200	6,15

No.	Measurement ID	z-Score
65	Sd-2-5200	-/-
66	Sd-3-5200	-0,10
67	Sd-1-5492	3,89
68	Sd-2-5492	1,41
69	Sd-3-5492	5,78
70	Sd-1-5522	-1,18
71	Sd-2-5522	0,38
72	Sd-3-5522	1,01
73	Sd-1-5955	-0,58
74	Sd-2-5955	1,96
75	Sd-3-5955	1,82
76	Sd-1-6024	-/-
77	Sd-2-6024	0,21
78	Sd-3-6024	0,69
79	Sd-4-6024	0,33
80	Sd-1-6429	1,38
81	Sd-2-6429	-1,16
82	Sd-3-6429	0,13
83	Sd-1-6764	-0,13
84	Sd-2-6764	-0,04
85	Sd-3-6764	-0,15
86	Sd-1-6811	1,50
87	Sd-2-6811	1,34
88	Sd-3-6811	1,93
89	Sd-1-6983	4,64
90	Sd-2-6983	1,98
91	Sd-3-6983	3,34
92	Sd-1-7015	2,28
93	Sd-2-7015	0,48
94	Sd-3-7015	0,85
95	Sd-1-7065	-4,82
96	Sd-2-7065	-5,63
97	Sd-3-7065	-4,64
98	Sd-1-7113	2,74
99	Sd-2-7113	1,49
100	Sd-3-7113	2,68
101	Sd-1-7158	1,28
102	Sd-2-7158	0,72
103	Sd-3-7158	0,93
104	Sd-1-7253	-0,78
105	Sd-2-7253	-1,39

No.	Measurement ID	z-Score
106	Sd-3-7253	-1,22
107	Sd-1-7281	-0,64
108	Sd-2-7281	-0,85
109	Sd-3-7281	-0,06
110	Sd-1-7796	-1,20
111	Sd-2-7796	-0,44
112	Sd-3-7796	0,97
113	Sd-1-7819	4,81
114	Sd-2-7819	0,98
115	Sd-3-7819	-7,27
116	Sd-1-7860	1,30
117	Sd-2-7860	0,63
118	Sd-3-7860	2,31
119	Sd-1-8152	1,23
120	Sd-2-8152	0,73
121	Sd-3-8152	1,00
122	Sd-1-8369	-0,16
123	Sd-2-8369	-0,71
124	Sd-3-8369	0,02
125	Sd-1-8449	-0,12
126	Sd-2-8449	0,89
127	Sd-3-8449	1,00
128	Sd-1-8720	0,14
129	Sd-2-8720	1,20
130	Sd-3-8720	1,76
131	Sd-1-9186	0,57
132	Sd-2-9186	0,74
133	Sd-3-9186	-0,31
134	Sd-1-9411	2,38
135	Sd-2-9411	2,81
136	Sd-3-9411	0,66
137	Sd-1-9599	-0,04
138	Sd-2-9599	-0,10
139	Sd-3-9599	0,33
140	Sd-1-9932	0,58
141	Sd-2-9932	-0,07
142	Sd-3-9932	0,25
143	Sd-1-9970	0,41
144	Sd-2-9970	-0,14
145	Sd-3-9970	0,01

2.2.5 Ethylbenzene



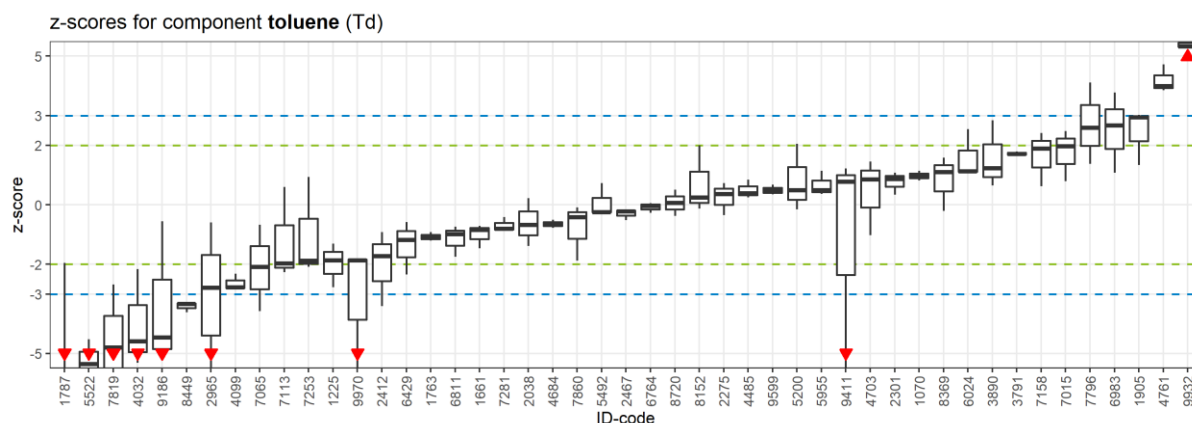
No.	Measurement ID	z-Score
1	Ed-1-1070	0,72
2	Ed-2-1070	0,50
3	Ed-3-1070	0,74
4	Ed-1-1225	-1,34
5	Ed-2-1225	-2,26
6	Ed-3-1225	-0,08
7	Ed-1-1661	-1,65
8	Ed-2-1661	-1,16
9	Ed-3-1661	-1,77
10	Ed-1-1763	-1,08
11	Ed-2-1763	-0,98
12	Ed-3-1763	-2,01
13	Ed-1-1787	-8,92
14	Ed-2-1787	-1,56
15	Ed-3-1787	-9,26
16	Ed-1-1905	0,47
17	Ed-2-1905	2,36
18	Ed-3-1905	2,43
19	Ed-1-2038	-0,62
20	Ed-2-2038	-0,93
21	Ed-3-2038	-1,56
22	Ed-1-2275	-1,09
23	Ed-2-2275	-0,26
24	Ed-3-2275	-0,13
25	Ed-1-2301	0,76
26	Ed-2-2301	1,03
27	Ed-3-2301	1,03
28	Ed-1-2412	-1,85
29	Ed-2-2412	-4,40
30	Ed-3-2412	-1,29
31	Ed-1-2467	-0,51
32	Ed-2-2467	-0,42

No.	Measurement ID	z-Score
33	Ed-3-2467	-0,30
34	Ed-1-2965	0,50
35	Ed-2-2965	-6,38
36	Ed-3-2965	-2,13
37	Ed-1-2992	-/-
38	Ed-2-2992	-/-
39	Ed-3-2992	-/-
40	Ed-1-3791	1,15
41	Ed-2-3791	0,68
42	Ed-3-3791	0,75
43	Ed-1-3890	2,68
44	Ed-2-3890	1,04
45	Ed-3-3890	1,57
46	Ed-1-4032	-9,31
47	Ed-2-4032	-7,09
48	Ed-3-4032	-3,49
49	Ed-1-4099	-4,63
50	Ed-2-4099	-3,76
51	Ed-3-4099	-3,59
52	Ed-1-4485	1,26
53	Ed-2-4485	1,62
54	Ed-3-4485	2,26
55	Ed-1-4684	-0,19
56	Ed-2-4684	-0,36
57	Ed-3-4684	-0,35
58	Ed-1-4703	-1,61
59	Ed-2-4703	1,15
60	Ed-3-4703	0,69
61	Ed-1-4761	-21,97
62	Ed-2-4761	-21,89
63	Ed-3-4761	-21,93
64	Ed-1-5200	-0,41

No.	Measurement ID	z-Score
65	Ed-2-5200	0,05
66	Ed-3-5200	2,25
67	Ed-1-5492	-2,43
68	Ed-2-5492	-2,16
69	Ed-3-5492	-1,30
70	Ed-1-5522	-7,17
71	Ed-2-5522	-10,93
72	Ed-3-5522	-5,26
73	Ed-1-5955	0,26
74	Ed-2-5955	2,10
75	Ed-3-5955	1,20
76	Ed-1-6024	0,82
77	Ed-2-6024	2,28
78	Ed-3-6024	0,55
79	Ed-4-6024	-/-
80	Ed-1-6429	-2,87
81	Ed-2-6429	-0,47
82	Ed-3-6429	-1,30
83	Ed-1-6764	-0,19
84	Ed-2-6764	0,14
85	Ed-3-6764	0,23
86	Ed-1-6811	-3,31
87	Ed-2-6811	-2,39
88	Ed-3-6811	-3,04
89	Ed-1-6983	2,14
90	Ed-2-6983	0,39
91	Ed-3-6983	2,21
92	Ed-1-7015	1,14
93	Ed-2-7015	1,42
94	Ed-3-7015	-0,30
95	Ed-1-7065	-0,44
96	Ed-2-7065	-4,89
97	Ed-3-7065	-3,13
98	Ed-1-7113	-0,03
99	Ed-2-7113	-2,26
100	Ed-3-7113	-2,63
101	Ed-1-7158	1,26
102	Ed-2-7158	1,68
103	Ed-3-7158	0,88
104	Ed-1-7253	-1,33
105	Ed-2-7253	3,49

No.	Measurement ID	z-Score
106	Ed-3-7253	-1,12
107	Ed-1-7281	0,37
108	Ed-2-7281	0,04
109	Ed-3-7281	0,07
110	Ed-1-7796	3,52
111	Ed-2-7796	0,82
112	Ed-3-7796	2,39
113	Ed-1-7819	0,25
114	Ed-2-7819	-4,55
115	Ed-3-7819	-2,26
116	Ed-1-7860	-1,69
117	Ed-2-7860	-0,43
118	Ed-3-7860	-1,32
119	Ed-1-8152	0,95
120	Ed-2-8152	3,02
121	Ed-3-8152	0,79
122	Ed-1-8369	-0,26
123	Ed-2-8369	0,42
124	Ed-3-8369	-0,97
125	Ed-1-8449	-3,95
126	Ed-2-8449	-3,70
127	Ed-3-8449	-3,71
128	Ed-1-8720	-0,17
129	Ed-2-8720	0,55
130	Ed-3-8720	-0,26
131	Ed-1-9186	-0,49
132	Ed-2-9186	-3,02
133	Ed-3-9186	0,44
134	Ed-1-9411	-5,53
135	Ed-2-9411	2,40
136	Ed-3-9411	2,71
137	Ed-1-9599	1,79
138	Ed-2-9599	1,03
139	Ed-3-9599	1,26
140	Ed-1-9932	4,78
141	Ed-2-9932	4,40
142	Ed-3-9932	5,14
143	Ed-1-9970	-2,66
144	Ed-2-9970	-2,29
145	Ed-3-9970	-6,24

2.2.6 Toluene



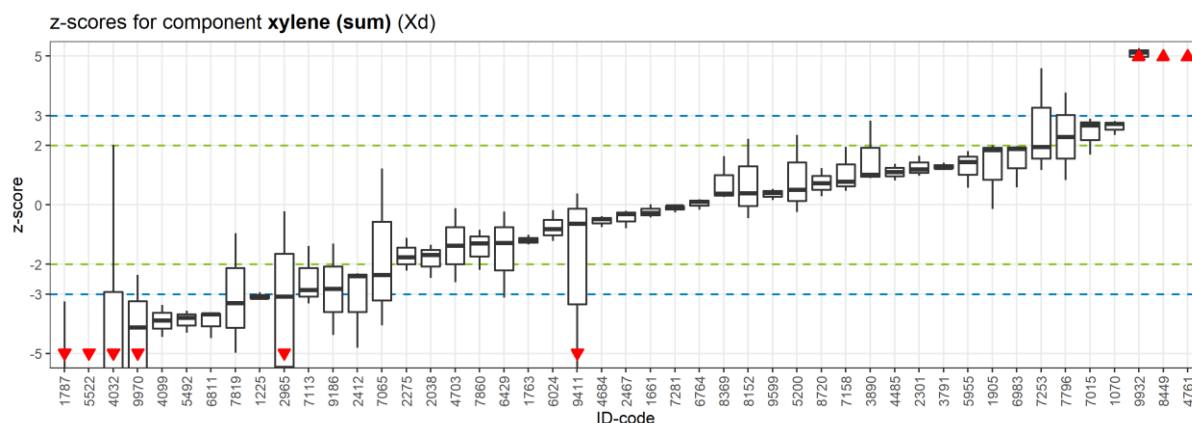
No.	Measurement ID	z-Score
1	Td-1-1070	0,96
2	Td-2-1070	0,82
3	Td-3-1070	1,15
4	Td-1-1225	-1,86
5	Td-2-1225	-2,77
6	Td-3-1225	-1,31
7	Td-1-1661	-0,84
8	Td-2-1661	-0,71
9	Td-3-1661	-1,47
10	Td-1-1763	-1,21
11	Td-2-1763	-1,09
12	Td-3-1763	-0,92
13	Td-1-1787	-10,82
14	Td-2-1787	-1,95
15	Td-3-1787	-10,71
16	Td-1-1905	1,34
17	Td-2-1905	2,95
18	Td-3-1905	3,02
19	Td-1-2038	0,23
20	Td-2-2038	-0,67
21	Td-3-2038	-1,38
22	Td-1-2275	-0,36
23	Td-2-2275	0,73
24	Td-3-2275	0,36
25	Td-1-2301	0,34
26	Td-2-2301	1,07
27	Td-3-2301	0,87
28	Td-1-2412	-0,91
29	Td-2-2412	-3,41
30	Td-3-2412	-1,72
31	Td-1-2467	-0,51
32	Td-2-2467	-0,22

No.	Measurement ID	z-Score
33	Td-3-2467	-0,16
34	Td-1-2965	-0,59
35	Td-2-2965	-6,01
36	Td-3-2965	-2,79
37	Td-1-2992	-/-
38	Td-2-2992	-/-
39	Td-3-2992	-/-
40	Td-1-3791	1,67
41	Td-2-3791	1,79
42	Td-3-3791	1,71
43	Td-1-3890	2,85
44	Td-2-3890	0,64
45	Td-3-3890	1,23
46	Td-1-4032	-5,31
47	Td-2-4032	-4,58
48	Td-3-4032	-2,17
49	Td-1-4099	-2,77
50	Td-2-4099	-2,83
51	Td-3-4099	-2,32
52	Td-1-4485	0,25
53	Td-2-4485	0,39
54	Td-3-4485	0,85
55	Td-1-4684	-0,51
56	Td-2-4684	-0,77
57	Td-3-4684	-0,66
58	Td-1-4703	-1,03
59	Td-2-4703	1,45
60	Td-3-4703	0,86
61	Td-1-4761	3,85
62	Td-2-4761	4,71
63	Td-3-4761	4,00
64	Td-1-5200	-0,15

No.	Measurement ID	z-Score
65	Td-2-5200	0,49
66	Td-3-5200	2,05
67	Td-1-5492	-0,25
68	Td-2-5492	-0,26
69	Td-3-5492	0,73
70	Td-1-5522	-5,36
71	Td-2-5522	-8,99
72	Td-3-5522	-4,53
73	Td-1-5955	0,36
74	Td-2-5955	1,14
75	Td-3-5955	0,49
76	Td-1-6024	1,13
77	Td-2-6024	2,54
78	Td-3-6024	1,10
79	Td-4-6024	-/-
80	Td-1-6429	-2,34
81	Td-2-6429	-0,59
82	Td-3-6429	-1,18
83	Td-1-6764	-0,28
84	Td-2-6764	-0,04
85	Td-3-6764	0,06
86	Td-1-6811	-1,76
87	Td-2-6811	-0,99
88	Td-3-6811	-0,74
89	Td-1-6983	2,67
90	Td-2-6983	1,08
91	Td-3-6983	3,77
92	Td-1-7015	1,97
93	Td-2-7015	2,48
94	Td-3-7015	0,79
95	Td-1-7065	-0,67
96	Td-2-7065	-3,58
97	Td-3-7065	-2,09
98	Td-1-7113	0,60
99	Td-2-7113	-2,26
100	Td-3-7113	-1,97
101	Td-1-7158	1,90
102	Td-2-7158	2,42
103	Td-3-7158	0,62
104	Td-1-7253	-2,08
105	Td-2-7253	0,94

No.	Measurement ID	z-Score
106	Td-3-7253	-1,88
107	Td-1-7281	-0,41
108	Td-2-7281	-0,81
109	Td-3-7281	-0,85
110	Td-1-7796	4,12
111	Td-2-7796	1,37
112	Td-3-7796	2,60
113	Td-1-7819	-2,68
114	Td-2-7819	-6,25
115	Td-3-7819	-4,79
116	Td-1-7860	-1,88
117	Td-2-7860	-0,09
118	Td-3-7860	-0,41
119	Td-1-8152	0,25
120	Td-2-8152	2,00
121	Td-3-8152	-0,13
122	Td-1-8369	1,10
123	Td-2-8369	1,58
124	Td-3-8369	-0,20
125	Td-1-8449	-3,34
126	Td-2-8449	-3,61
127	Td-3-8449	-3,31
128	Td-1-8720	0,06
129	Td-2-8720	0,50
130	Td-3-8720	-0,37
131	Td-1-9186	-5,24
132	Td-2-9186	-4,46
133	Td-3-9186	-0,55
134	Td-1-9411	-5,49
135	Td-2-9411	1,22
136	Td-3-9411	0,77
137	Td-1-9599	0,35
138	Td-2-9599	0,47
139	Td-3-9599	0,68
140	Td-1-9932	5,57
141	Td-2-9932	5,33
142	Td-3-9932	5,30
143	Td-1-9970	-1,86
144	Td-2-9970	-1,83
145	Td-3-9970	-5,87

2.2.7 Sum of Xylenes



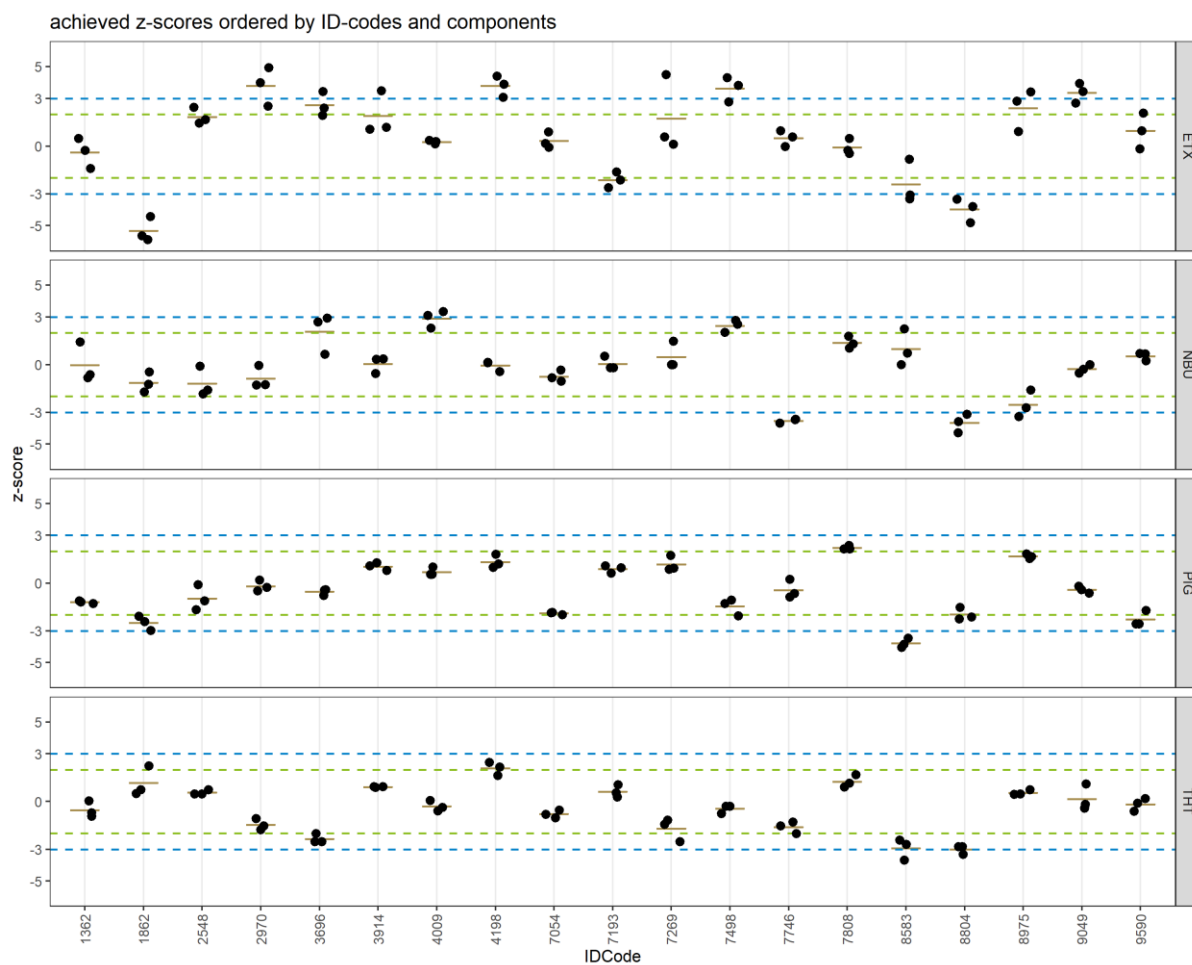
No.	Measurement ID	z-Score
1	Xd-1-1070	2,82
2	Xd-2-1070	2,35
3	Xd-3-1070	2,72
4	Xd-1-1225	-2,94
5	Xd-2-1225	-3,14
6	Xd-3-1225	-3,13
7	Xd-1-1661	-0,42
8	Xd-2-1661	0,01
9	Xd-3-1661	-0,27
10	Xd-1-1763	-1,33
11	Xd-2-1763	-1,22
12	Xd-3-1763	-1,01
13	Xd-1-1787	-11,08
14	Xd-2-1787	-3,25
15	Xd-3-1787	-10,20
16	Xd-1-1905	-0,14
17	Xd-2-1905	1,84
18	Xd-3-1905	1,99
19	Xd-1-2038	-1,35
20	Xd-2-2038	-1,69
21	Xd-3-2038	-2,46
22	Xd-1-2275	-2,22
23	Xd-2-2275	-1,76
24	Xd-3-2275	-1,12
25	Xd-1-2301	1,19
26	Xd-2-2301	1,65
27	Xd-3-2301	0,97
28	Xd-1-2412	-2,30
29	Xd-2-2412	-4,80
30	Xd-3-2412	-2,40
31	Xd-1-2467	-0,79
32	Xd-2-2467	-0,31

No.	Measurement ID	z-Score
33	Xd-3-2467	-0,20
34	Xd-1-2965	-0,22
35	Xd-2-2965	-7,80
36	Xd-3-2965	-3,08
37	Xd-1-2992	-/-
38	Xd-2-2992	-/-
39	Xd-3-2992	-/-
40	Xd-1-3791	1,25
41	Xd-2-3791	1,22
42	Xd-3-3791	1,42
43	Xd-1-3890	2,83
44	Xd-2-3890	1,01
45	Xd-3-3890	0,90
46	Xd-1-4032	-9,03
47	Xd-2-4032	2,01
48	Xd-3-4032	-7,87
49	Xd-1-4099	-4,44
50	Xd-2-4099	-3,89
51	Xd-3-4099	-3,37
52	Xd-1-4485	0,82
53	Xd-2-4485	1,37
54	Xd-3-4485	1,11
55	Xd-1-4684	-0,39
56	Xd-2-4684	-0,76
57	Xd-3-4684	-0,48
58	Xd-1-4703	-2,60
59	Xd-2-4703	-0,12
60	Xd-3-4703	-1,38
61	Xd-1-4761	111,72
62	Xd-2-4761	104,11
63	Xd-3-4761	103,12
64	Xd-1-5200	-0,24

No.	Measurement ID	z-Score
65	Xd-2-5200	0,51
66	Xd-3-5200	2,34
67	Xd-1-5492	-4,30
68	Xd-2-5492	-3,80
69	Xd-3-5492	-3,57
70	Xd-1-5522	-8,03
71	Xd-2-5522	-11,64
72	Xd-3-5522	-6,22
73	Xd-1-5955	1,44
74	Xd-2-5955	1,81
75	Xd-3-5955	0,58
76	Xd-1-6024	-0,82
77	Xd-2-6024	-0,18
78	Xd-3-6024	-1,22
79	Xd-4-6024	-/-
80	Xd-1-6429	-3,12
81	Xd-2-6429	-0,23
82	Xd-3-6429	-1,29
83	Xd-1-6764	-0,17
84	Xd-2-6764	0,11
85	Xd-3-6764	0,18
86	Xd-1-6811	-4,49
87	Xd-2-6811	-3,66
88	Xd-3-6811	-3,69
89	Xd-1-6983	1,97
90	Xd-2-6983	0,58
91	Xd-3-6983	1,89
92	Xd-1-7015	2,67
93	Xd-2-7015	2,89
94	Xd-3-7015	1,69
95	Xd-1-7065	1,23
96	Xd-2-7065	-4,06
97	Xd-3-7065	-2,36
98	Xd-1-7113	-1,39
99	Xd-2-7113	-2,86
100	Xd-3-7113	-3,32
101	Xd-1-7158	0,78
102	Xd-2-7158	1,95
103	Xd-3-7158	0,46
104	Xd-1-7253	1,17
105	Xd-2-7253	1,94

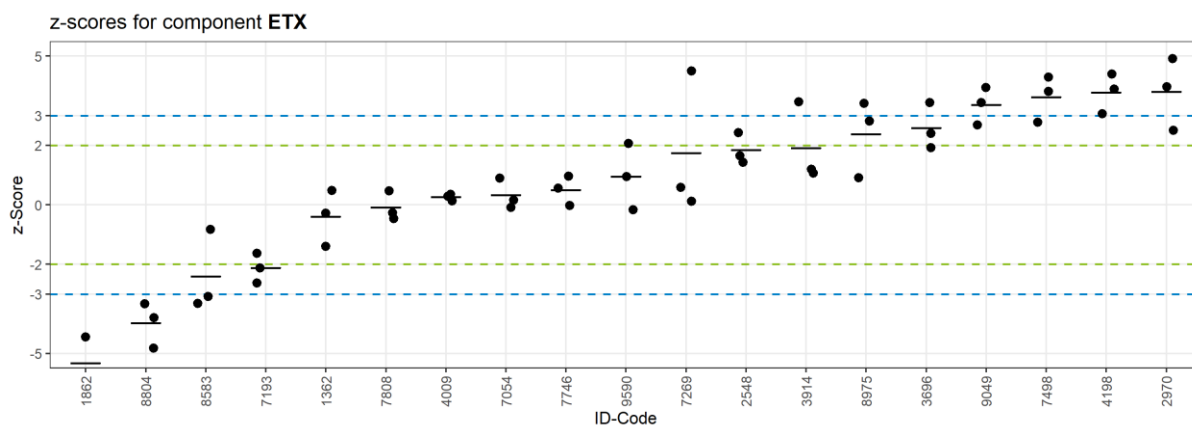
No.	Measurement ID	z-Score
106	Xd-3-7253	4,59
107	Xd-1-7281	-0,05
108	Xd-2-7281	-0,25
109	Xd-3-7281	-0,05
110	Xd-1-7796	3,77
111	Xd-2-7796	0,83
112	Xd-3-7796	2,29
113	Xd-1-7819	-0,95
114	Xd-2-7819	-4,97
115	Xd-3-7819	-3,31
116	Xd-1-7860	-2,18
117	Xd-2-7860	-0,84
118	Xd-3-7860	-1,29
119	Xd-1-8152	0,38
120	Xd-2-8152	2,22
121	Xd-3-8152	-0,45
122	Xd-1-8369	0,38
123	Xd-2-8369	1,63
124	Xd-3-8369	0,25
125	Xd-1-8449	7,55
126	Xd-2-8449	7,84
127	Xd-3-8449	7,98
128	Xd-1-8720	0,72
129	Xd-2-8720	1,23
130	Xd-3-8720	0,29
131	Xd-1-9186	-2,82
132	Xd-2-9186	-4,38
133	Xd-3-9186	-1,31
134	Xd-1-9411	-6,05
135	Xd-2-9411	0,38
136	Xd-3-9411	-0,64
137	Xd-1-9599	0,53
138	Xd-2-9599	0,15
139	Xd-3-9599	0,40
140	Xd-1-9932	5,12
141	Xd-2-9932	4,83
142	Xd-3-9932	5,27
143	Xd-1-9970	-4,13
144	Xd-2-9970	-2,35
145	Xd-3-9970	-7,81

2.3 Odour (Substance Range 0)



Scheme 3: z-scores for the substance range 0 (only z-scores in the range -5 ... 5 are displayed)

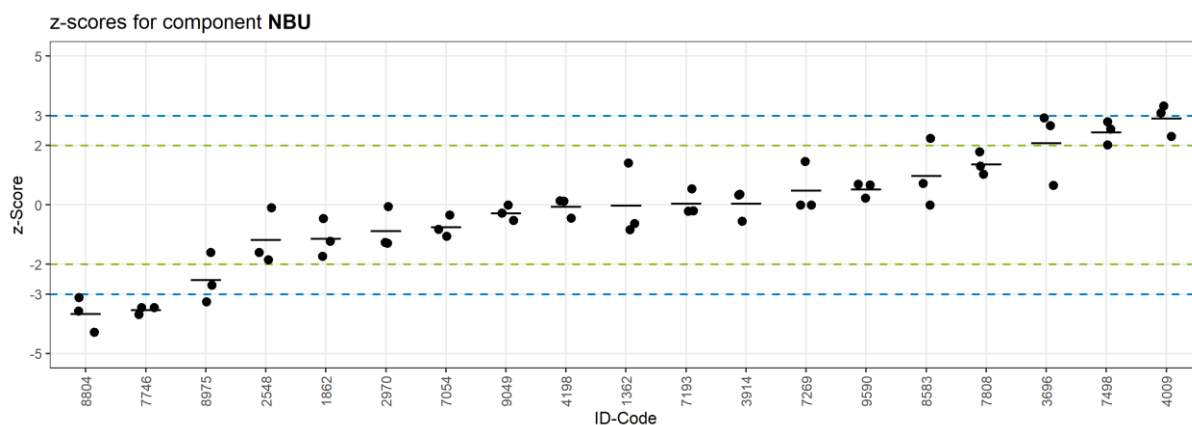
2.3.1 Solvent mixture (ETX)



No.	Measurement ID	z-Score
1	ETX-1-1362	-0,28
2	ETX-2-1362	-1,40
3	ETX-3-1362	0,47
4	ETX-1-1862	-4,44
5	ETX-2-1862	-5,89
6	ETX-3-1862	-5,65
7	ETX-1-2548	1,43
8	ETX-2-2548	2,42
9	ETX-3-2548	1,65
10	ETX-1-2970	3,97
11	ETX-2-2970	2,50
12	ETX-3-2970	4,92
13	ETX-1-3696	3,44
14	ETX-2-3696	1,92
15	ETX-3-3696	2,40
16	ETX-1-3914	1,19
17	ETX-2-3914	3,46
18	ETX-3-3914	1,06
19	ETX-1-4009	0,28
20	ETX-2-4009	0,35
21	ETX-3-4009	0,14
22	ETX-1-4198	4,39
23	ETX-2-4198	3,05
24	ETX-3-4198	3,89
25	ETX-1-7054	0,90
26	ETX-2-7054	0,15
27	ETX-3-7054	-0,09
28	ETX-1-7193	-1,64
29	ETX-2-7193	-2,62

No.	Measurement ID	z-Score
30	ETX-3-7193	-2,12
31	ETX-1-7269	4,50
32	ETX-2-7269	0,58
33	ETX-3-7269	0,12
34	ETX-1-7498	4,29
35	ETX-2-7498	2,77
36	ETX-3-7498	3,81
37	ETX-1-7746	0,96
38	ETX-2-7746	0,56
39	ETX-3-7746	-0,02
40	ETX-1-7808	0,47
41	ETX-2-7808	-0,46
42	ETX-3-7808	-0,28
43	ETX-1-8583	-0,82
44	ETX-2-8583	-3,09
45	ETX-3-8583	-3,32
46	ETX-1-8804	-3,80
47	ETX-2-8804	-3,34
48	ETX-3-8804	-4,82
49	ETX-1-8975	3,40
50	ETX-2-8975	2,82
51	ETX-3-8975	0,91
52	ETX-1-9049	3,94
53	ETX-2-9049	3,44
54	ETX-3-9049	2,69
55	ETX-1-9590	2,06
56	ETX-2-9590	0,95
57	ETX-3-9590	-0,17

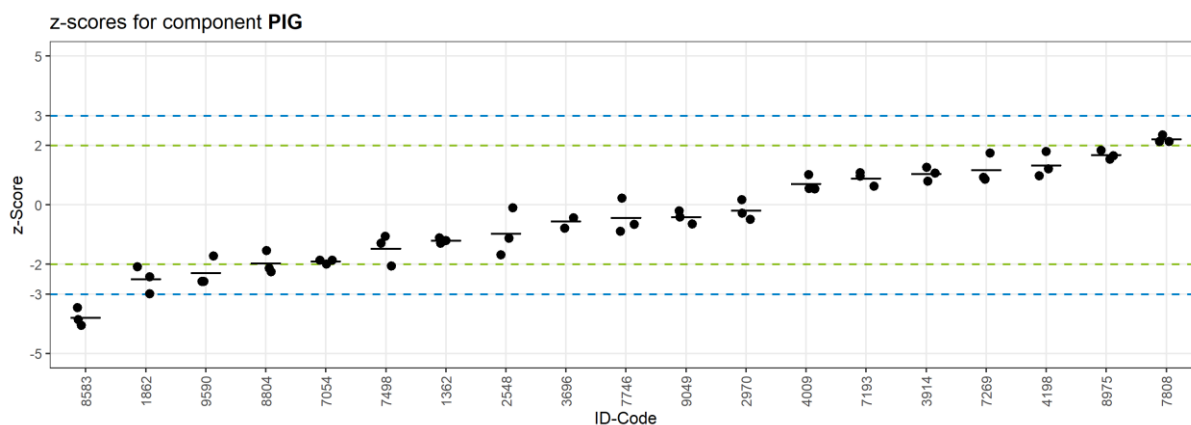
2.3.2 n-Butanol



No.	Measurement ID	z-Score
1	NBU-1-1362	-0,64
2	NBU-2-1362	-0,84
3	NBU-3-1362	1,41
4	NBU-1-1862	-0,46
5	NBU-2-1862	-1,74
6	NBU-3-1862	-1,23
7	NBU-1-2548	-1,85
8	NBU-2-2548	-1,60
9	NBU-3-2548	-0,10
10	NBU-1-2970	-0,07
11	NBU-2-2970	-1,30
12	NBU-3-2970	-1,27
13	NBU-1-3696	2,66
14	NBU-2-3696	2,92
15	NBU-3-3696	0,65
16	NBU-1-3914	0,35
17	NBU-2-3914	0,33
18	NBU-3-3914	-0,56
19	NBU-1-4009	3,32
20	NBU-2-4009	2,29
21	NBU-3-4009	3,09
22	NBU-1-4198	0,12
23	NBU-2-4198	-0,45
24	NBU-3-4198	0,13
25	NBU-1-7054	-0,35
26	NBU-2-7054	-1,06
27	NBU-3-7054	-0,83
28	NBU-1-7193	0,53
29	NBU-2-7193	-0,21

No.	Measurement ID	z-Score
30	NBU-3-7193	-0,20
31	NBU-1-7269	1,45
32	NBU-2-7269	-0,01
33	NBU-3-7269	-0,01
34	NBU-1-7498	2,78
35	NBU-2-7498	2,54
36	NBU-3-7498	2,01
37	NBU-1-7746	-3,46
38	NBU-2-7746	-3,70
39	NBU-3-7746	-3,46
40	NBU-1-7808	1,30
41	NBU-2-7808	1,78
42	NBU-3-7808	1,02
43	NBU-1-8583	2,23
44	NBU-2-8583	0,72
45	NBU-3-8583	-0,02
46	NBU-1-8804	-3,13
47	NBU-2-8804	-4,29
48	NBU-3-8804	-3,58
49	NBU-1-8975	-1,61
50	NBU-2-8975	-2,71
51	NBU-3-8975	-3,27
52	NBU-1-9049	-0,53
53	NBU-2-9049	-0,29
54	NBU-3-9049	-0,02
55	NBU-1-9590	0,69
56	NBU-2-9590	0,67
57	NBU-3-9590	0,22

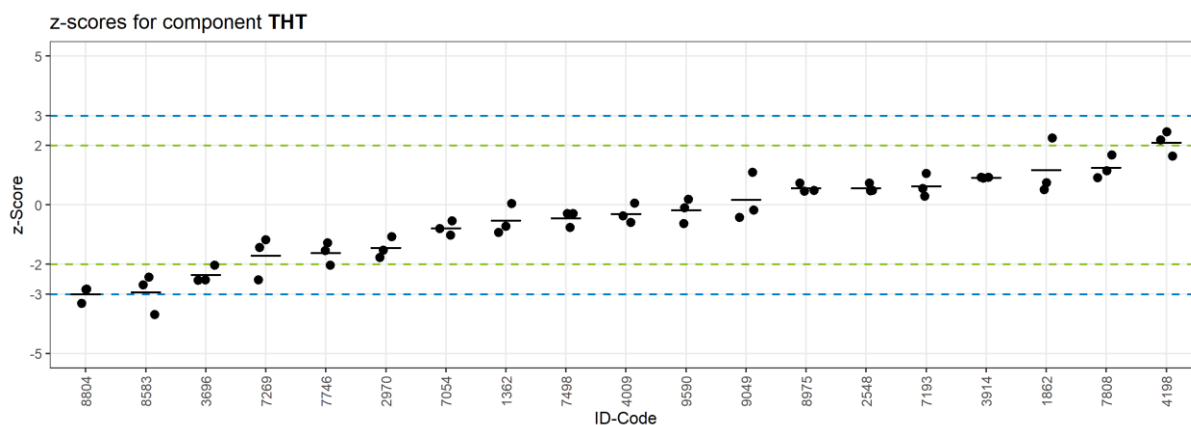
2.3.3 Artificial Pigsty



No.	Measurement ID	z-Score
1	PIG-1-1362	-1,11
2	PIG-2-1362	-1,21
3	PIG-3-1362	-1,29
4	PIG-1-1862	-2,99
5	PIG-2-1862	-2,08
6	PIG-3-1862	-2,43
7	PIG-1-2548	-0,10
8	PIG-2-2548	-1,13
9	PIG-3-2548	-1,69
10	PIG-1-2970	-0,28
11	PIG-2-2970	-0,49
12	PIG-3-2970	0,17
13	PIG-1-3696	-0,44
14	PIG-2-3696	-0,79
15	PIG-3-3696	-0,43
16	PIG-1-3914	1,07
17	PIG-2-3914	1,26
18	PIG-3-3914	0,79
19	PIG-1-4009	1,01
20	PIG-2-4009	0,54
21	PIG-3-4009	0,54
22	PIG-1-4198	0,97
23	PIG-2-4198	1,21
24	PIG-3-4198	1,79
25	PIG-1-7054	-1,99
26	PIG-2-7054	-1,86
27	PIG-3-7054	-1,86
28	PIG-1-7193	0,96
29	PIG-2-7193	0,63

No.	Measurement ID	z-Score
30	PIG-3-7193	1,07
31	PIG-1-7269	0,85
32	PIG-2-7269	1,74
33	PIG-3-7269	0,92
34	PIG-1-7498	-2,06
35	PIG-2-7498	-1,29
36	PIG-3-7498	-1,07
37	PIG-1-7746	0,22
38	PIG-2-7746	-0,89
39	PIG-3-7746	-0,66
40	PIG-1-7808	2,13
41	PIG-2-7808	2,35
42	PIG-3-7808	2,13
43	PIG-1-8583	-3,86
44	PIG-2-8583	-4,06
45	PIG-3-8583	-3,46
46	PIG-1-8804	-1,54
47	PIG-2-8804	-2,13
48	PIG-3-8804	-2,25
49	PIG-1-8975	1,65
50	PIG-2-8975	1,54
51	PIG-3-8975	1,83
52	PIG-1-9049	-0,20
53	PIG-2-9049	-0,41
54	PIG-3-9049	-0,64
55	PIG-1-9590	-1,72
56	PIG-2-9590	-2,58
57	PIG-3-9590	-2,58

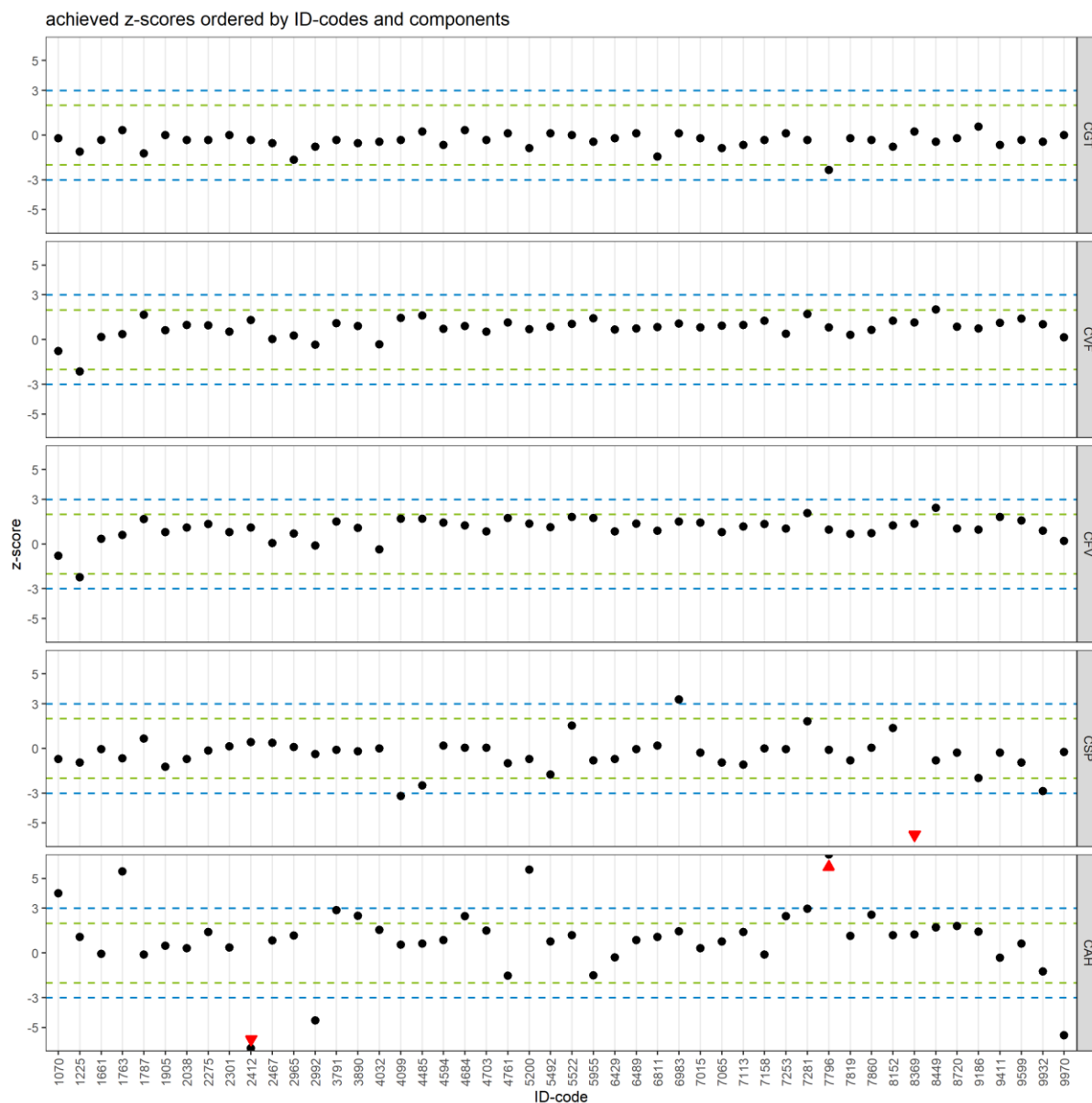
2.3.4 Tetrahydrothiophene



No.	Measurement ID	z-Score
1	THT-1-1362	0,04
2	THT-2-1362	-0,72
3	THT-3-1362	-0,93
4	THT-1-1862	0,51
5	THT-2-1862	0,74
6	THT-3-1862	2,24
7	THT-1-2548	0,48
8	THT-2-2548	0,47
9	THT-3-2548	0,72
10	THT-1-2970	-1,07
11	THT-2-2970	-1,77
12	THT-3-2970	-1,53
13	THT-1-3696	-2,03
14	THT-2-3696	-2,53
15	THT-3-3696	-2,53
16	THT-1-3914	0,89
17	THT-2-3914	0,92
18	THT-3-3914	0,93
19	THT-1-4009	-0,38
20	THT-2-4009	-0,59
21	THT-3-4009	0,05
22	THT-1-4198	2,46
23	THT-2-4198	1,63
24	THT-3-4198	2,17
25	THT-1-7054	-1,02
26	THT-2-7054	-0,55
27	THT-3-7054	-0,80
28	THT-1-7193	1,05
29	THT-2-7193	0,55

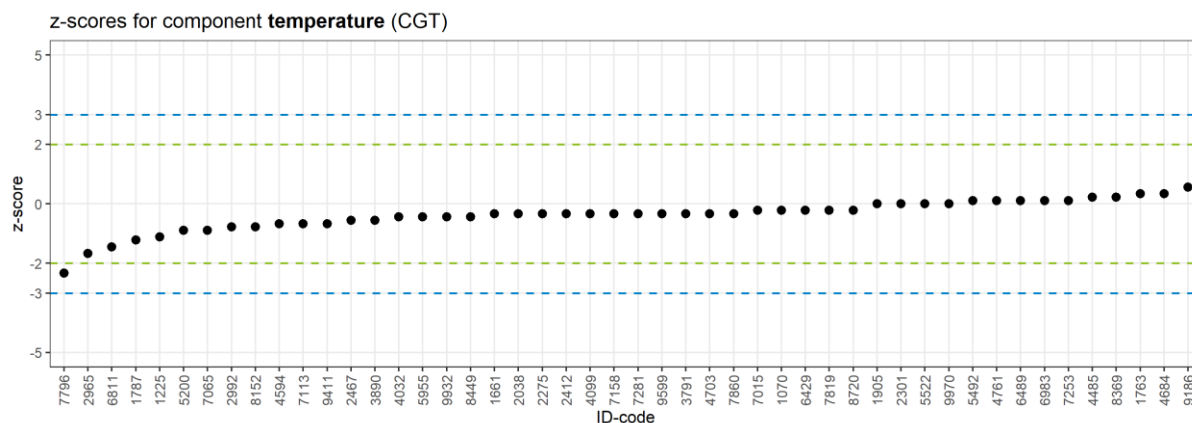
No.	Measurement ID	z-Score
30	THT-3-7193	0,28
31	THT-1-7269	-1,44
32	THT-2-7269	-1,17
33	THT-3-7269	-2,53
34	THT-1-7498	-0,30
35	THT-2-7498	-0,77
36	THT-3-7498	-0,30
37	THT-1-7746	-1,54
38	THT-2-7746	-2,03
39	THT-3-7746	-1,28
40	THT-1-7808	1,67
41	THT-2-7808	0,91
42	THT-3-7808	1,14
43	THT-1-8583	-2,69
44	THT-2-8583	-2,44
45	THT-3-8583	-3,69
46	THT-1-8804	-2,84
47	THT-2-8804	-3,31
48	THT-3-8804	-2,85
49	THT-1-8975	0,48
50	THT-2-8975	0,73
51	THT-3-8975	0,45
52	THT-1-9049	1,09
53	THT-2-9049	-0,43
54	THT-3-9049	-0,18
55	THT-1-9590	-0,10
56	THT-2-9590	0,19
57	THT-3-9590	-0,63

2.4 Gas Flow Conditions



Scheme 4: z-scores (or quotients from participant deviation and typical deviation) for gas flow conditions

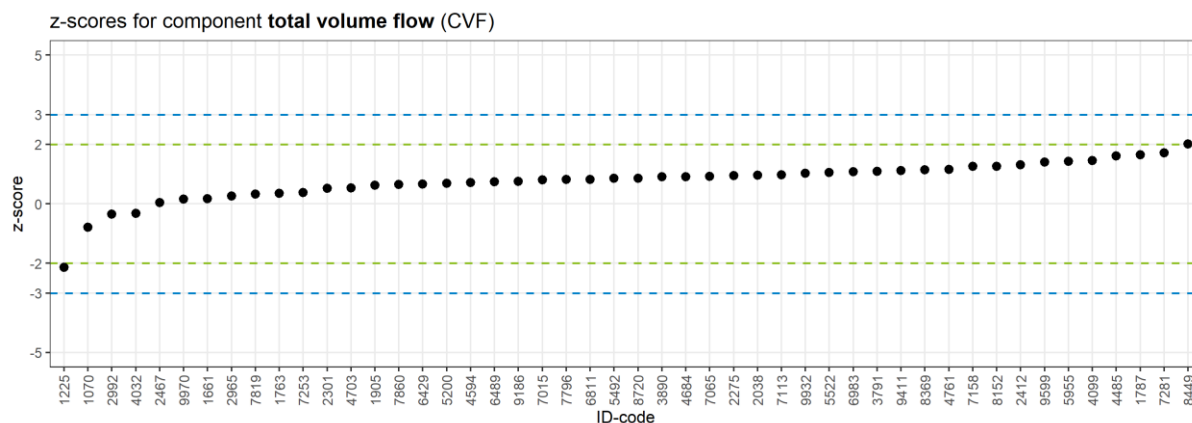
2.4.1 Temperature



No.	Measurement ID	z-Score
1	CGT-1-1070	-0,22
2	CGT-1-1225	-1,11
3	CGT-1-1661	-0,33
4	CGT-1-1763	0,33
5	CGT-1-1787	-1,22
6	CGT-1-1905	0,00
7	CGT-1-2038	-0,33
8	CGT-1-2275	-0,33
9	CGT-1-2301	0,00
10	CGT-1-2412	-0,33
11	CGT-1-2467	-0,56
12	CGT-1-2965	-1,67
13	CGT-1-2992	-0,78
14	CGT-1-3791	-0,33
15	CGT-1-3890	-0,56
16	CGT-1-4032	-0,44
17	CGT-1-4099	-0,33
18	CGT-1-4485	0,22
19	CGT-1-4594	-0,67
20	CGT-1-4684	0,33
21	CGT-1-4703	-0,33
22	CGT-1-4761	0,11
23	CGT-1-5200	-0,89
24	CGT-1-5492	0,11

No.	Measurement ID	z-Score
25	CGT-1-5522	0,00
26	CGT-1-5955	-0,44
27	CGT-1-6429	-0,22
28	CGT-1-6489	0,11
29	CGT-1-6811	-1,44
30	CGT-1-6983	0,11
31	CGT-1-7015	-0,22
32	CGT-1-7065	-0,89
33	CGT-1-7113	-0,67
34	CGT-1-7158	-0,33
35	CGT-1-7253	0,11
36	CGT-1-7281	-0,33
37	CGT-1-7796	-2,33
38	CGT-1-7819	-0,22
39	CGT-1-7860	-0,33
40	CGT-1-8152	-0,78
41	CGT-1-8369	0,22
42	CGT-1-8449	-0,44
43	CGT-1-8720	-0,22
44	CGT-1-9186	0,56
45	CGT-1-9411	-0,67
46	CGT-1-9599	-0,33
47	CGT-1-9932	-0,44
48	CGT-1-9970	0,00

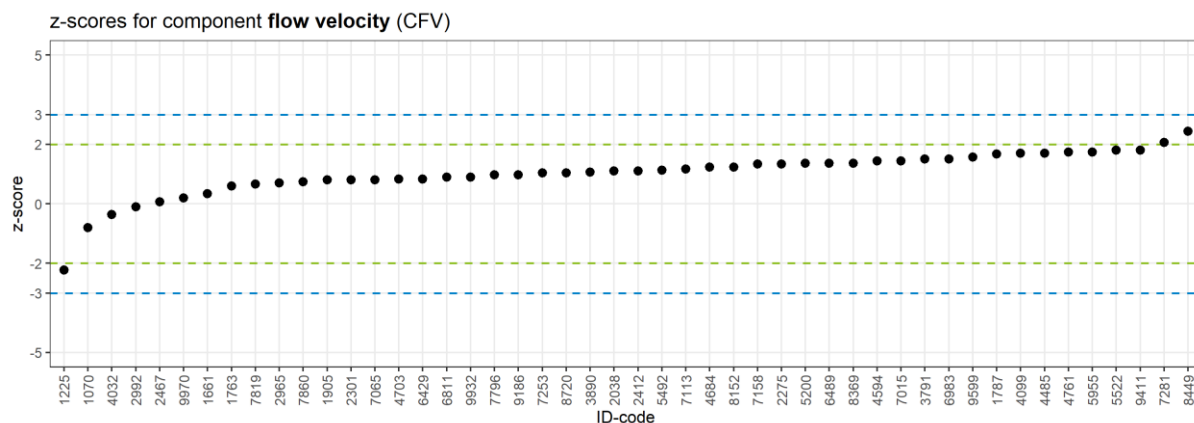
2.4.2 Volume Flow



No.	Measurement ID	z-Score
1	CVF-1-1070	-0,79
2	CVF-1-1225	-2,14
3	CVF-1-1661	0,17
4	CVF-1-1763	0,35
5	CVF-1-1787	1,65
6	CVF-1-1905	0,63
7	CVF-1-2038	0,96
8	CVF-1-2275	0,94
9	CVF-1-2301	0,52
10	CVF-1-2412	1,31
11	CVF-1-2467	0,04
12	CVF-1-2965	0,26
13	CVF-1-2992	-0,34
14	CVF-1-3791	1,09
15	CVF-1-3890	0,91
16	CVF-1-4032	-0,33
17	CVF-1-4099	1,46
18	CVF-1-4485	1,61
19	CVF-1-4594	0,71
20	CVF-1-4684	0,91
21	CVF-1-4703	0,53
22	CVF-1-4761	1,15
23	CVF-1-5200	0,69
24	CVF-1-5492	0,85

No.	Measurement ID	z-Score
25	CVF-1-5522	1,06
26	CVF-1-5955	1,42
27	CVF-1-6429	0,66
28	CVF-1-6489	0,74
29	CVF-1-6811	0,82
30	CVF-1-6983	1,07
31	CVF-1-7015	0,80
32	CVF-1-7065	0,92
33	CVF-1-7113	0,97
34	CVF-1-7158	1,26
35	CVF-1-7253	0,38
36	CVF-1-7281	1,71
37	CVF-1-7796	0,81
38	CVF-1-7819	0,32
39	CVF-1-7860	0,65
40	CVF-1-8152	1,26
41	CVF-1-8369	1,14
42	CVF-1-8449	2,01
43	CVF-1-8720	0,86
44	CVF-1-9186	0,75
45	CVF-1-9411	1,11
46	CVF-1-9599	1,40
47	CVF-1-9932	1,02
48	CVF-1-9970	0,16

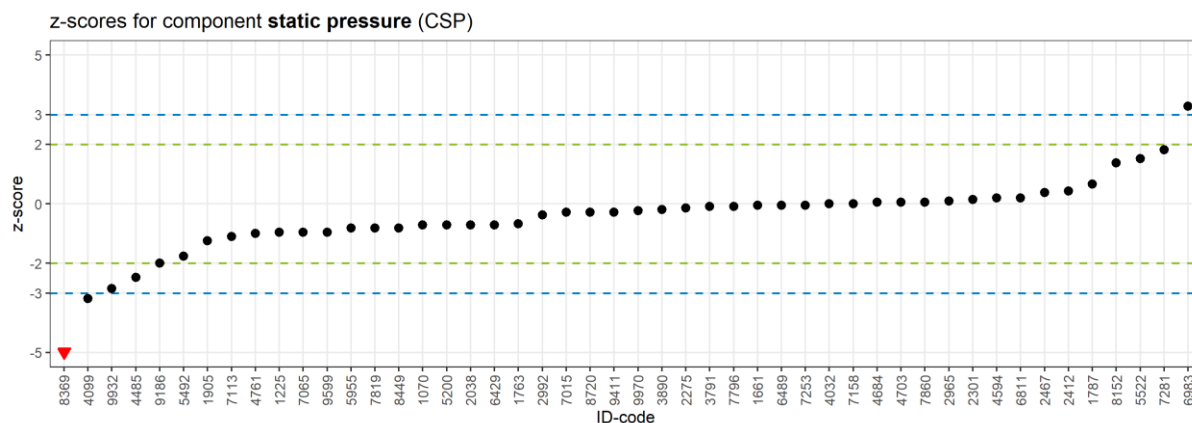
2.4.3 Mean Flow Velocity



No.	Measurement ID	z-Score
1	CFV-1-1070	-0,80
2	CFV-1-1225	-2,23
3	CFV-1-1661	0,33
4	CFV-1-1763	0,60
5	CFV-1-1787	1,67
6	CFV-1-1905	0,80
7	CFV-1-2038	1,10
8	CFV-1-2275	1,33
9	CFV-1-2301	0,80
10	CFV-1-2412	1,10
11	CFV-1-2467	0,07
12	CFV-1-2965	0,70
13	CFV-1-2992	-0,10
14	CFV-1-3791	1,50
15	CFV-1-3890	1,07
16	CFV-1-4032	-0,37
17	CFV-1-4099	1,70
18	CFV-1-4485	1,70
19	CFV-1-4594	1,43
20	CFV-1-4684	1,23
21	CFV-1-4703	0,83
22	CFV-1-4761	1,73
23	CFV-1-5200	1,37
24	CFV-1-5492	1,13

No.	Measurement ID	z-Score
25	CFV-1-5522	1,80
26	CFV-1-5955	1,73
27	CFV-1-6429	0,83
28	CFV-1-6489	1,37
29	CFV-1-6811	0,90
30	CFV-1-6983	1,50
31	CFV-1-7015	1,43
32	CFV-1-7065	0,80
33	CFV-1-7113	1,17
34	CFV-1-7158	1,33
35	CFV-1-7253	1,03
36	CFV-1-7281	2,07
37	CFV-1-7796	0,97
38	CFV-1-7819	0,67
39	CFV-1-7860	0,73
40	CFV-1-8152	1,23
41	CFV-1-8369	1,37
42	CFV-1-8449	2,43
43	CFV-1-8720	1,03
44	CFV-1-9186	0,97
45	CFV-1-9411	1,80
46	CFV-1-9599	1,57
47	CFV-1-9932	0,90
48	CFV-1-9970	0,20

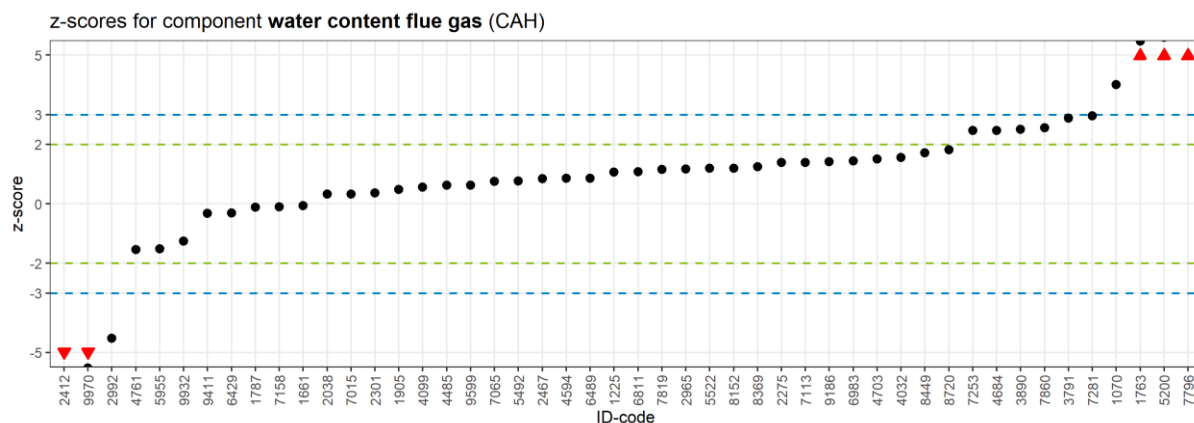
2.4.4 Static Pressure



No.	Measurement ID	z-Score
1	CSP-1-1070	-0,71
2	CSP-1-1225	-0,95
3	CSP-1-1661	-0,05
4	CSP-1-1763	-0,67
5	CSP-1-1787	0,67
6	CSP-1-1905	-1,24
7	CSP-1-2038	-0,71
8	CSP-1-2275	-0,14
9	CSP-1-2301	0,14
10	CSP-1-2412	0,43
11	CSP-1-2467	0,38
12	CSP-1-2965	0,10
13	CSP-1-2992	-0,38
14	CSP-1-3791	-0,10
15	CSP-1-3890	-0,19
16	CSP-1-4032	0,00
17	CSP-1-4099	-3,19
18	CSP-1-4485	-2,48
19	CSP-1-4594	0,19
20	CSP-1-4684	0,05
21	CSP-1-4703	0,05
22	CSP-1-4761	-1,00
23	CSP-1-5200	-0,71
24	CSP-1-5492	-1,76

No.	Measurement ID	z-Score
25	CSP-1-5522	1,52
26	CSP-1-5955	-0,81
27	CSP-1-6429	-0,71
28	CSP-1-6489	-0,05
29	CSP-1-6811	0,19
30	CSP-1-6983	3,29
31	CSP-1-7015	-0,29
32	CSP-1-7065	-0,95
33	CSP-1-7113	-1,10
34	CSP-1-7158	0,00
35	CSP-1-7253	-0,05
36	CSP-1-7281	1,81
37	CSP-1-7796	-0,10
38	CSP-1-7819	-0,81
39	CSP-1-7860	0,05
40	CSP-1-8152	1,38
41	CSP-1-8369	-7,95
42	CSP-1-8449	-0,81
43	CSP-1-8720	-0,29
44	CSP-1-9186	-2,00
45	CSP-1-9411	-0,29
46	CSP-1-9599	-0,95
47	CSP-1-9932	-2,86
48	CSP-1-9970	-0,24

2.4.5 Water Vapour Concentration



No.	Measurement ID	z-Score
1	CAH-1-1070	4,00
2	CAH-1-1225	1,07
3	CAH-1-1661	-0,07
4	CAH-1-1763	5,47
5	CAH-1-1787	-0,12
6	CAH-1-1905	0,49
7	CAH-1-2038	0,32
8	CAH-1-2275	1,39
9	CAH-1-2301	0,36
10	CAH-1-2412	-6,39
11	CAH-1-2467	0,84
12	CAH-1-2965	1,16
13	CAH-1-2992	-4,53
14	CAH-1-3791	2,88
15	CAH-1-3890	2,50
16	CAH-1-4032	1,55
17	CAH-1-4099	0,55
18	CAH-1-4485	0,62
19	CAH-1-4594	0,85
20	CAH-1-4684	2,46
21	CAH-1-4703	1,50
22	CAH-1-4761	-1,54
23	CAH-1-5200	5,59
24	CAH-1-5492	0,77

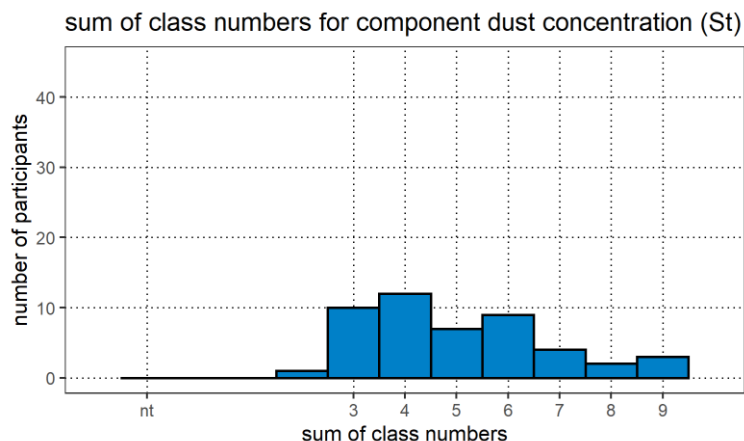
No.	Measurement ID	z-Score
25	CAH-1-5522	1,19
26	CAH-1-5955	-1,51
27	CAH-1-6429	-0,31
28	CAH-1-6489	0,85
29	CAH-1-6811	1,08
30	CAH-1-6983	1,45
31	CAH-1-7015	0,32
32	CAH-1-7065	0,76
33	CAH-1-7113	1,39
34	CAH-1-7158	-0,11
35	CAH-1-7253	2,46
36	CAH-1-7281	2,96
37	CAH-1-7796	6,61
38	CAH-1-7819	1,15
39	CAH-1-7860	2,55
40	CAH-1-8152	1,19
41	CAH-1-8369	1,24
42	CAH-1-8449	1,72
43	CAH-1-8720	1,81
44	CAH-1-9186	1,42
45	CAH-1-9411	-0,32
46	CAH-1-9599	0,62
47	CAH-1-9932	-1,26
48	CAH-1-9970	-5,53

3. Achieved Sums of Class Numbers

The following schemes show the sum of class numbers that the participants achieved for the different components in form of histogram charts. For the interpretation of the sums of class numbers, please refer to the annual report (main document). Participants that did not hand in results for a component are listed as “nt”.

3.1 Dust (Substance Range P)

3.1.1 Dust Concentration



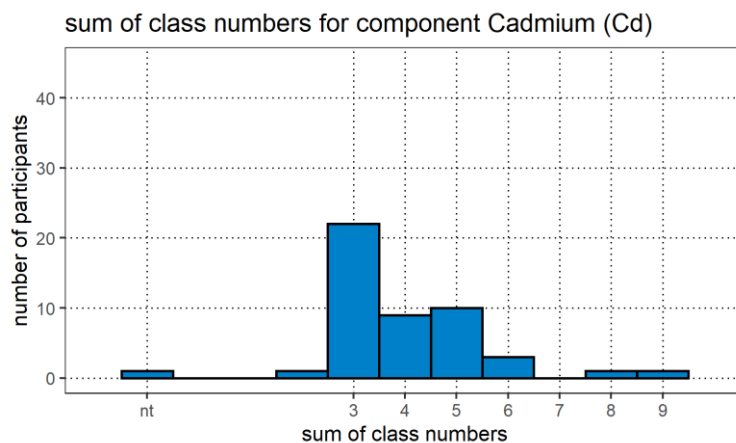
ID	component	result
1070	dust concentration	7
1225	dust concentration	2
1661	dust concentration	6
1763	dust concentration	3
1787	dust concentration	3
1905	dust concentration	5
2038	dust concentration	4
2275	dust concentration	8
2301	dust concentration	6
2412	dust concentration	4
2467	dust concentration	3
2965	dust concentration	3
2992	dust concentration	6
3791	dust concentration	3
3890	dust concentration	9
4032	dust concentration	4
4099	dust concentration	6
4485	dust concentration	5
4594	dust concentration	9
4684	dust concentration	5
4703	dust concentration	6
4761	dust concentration	5
5200	dust concentration	4

ID	component	result
5492	dust concentration	4
5522	dust concentration	4
5955	dust concentration	4
6429	dust concentration	7
6489	dust concentration	3
6811	dust concentration	6
6983	dust concentration	5
7015	dust concentration	5
7065	dust concentration	6
7113	dust concentration	4
7158	dust concentration	3
7253	dust concentration	9
7281	dust concentration	4
7796	dust concentration	3
7819	dust concentration	4
7860	dust concentration	3
8152	dust concentration	5
8369	dust concentration	3
8449	dust concentration	4
8720	dust concentration	6
9186	dust concentration	7
9411	dust concentration	7
9599	dust concentration	4

ID	component	result
9932	dust concentration	8

ID	component	result
9970	dust concentration	6

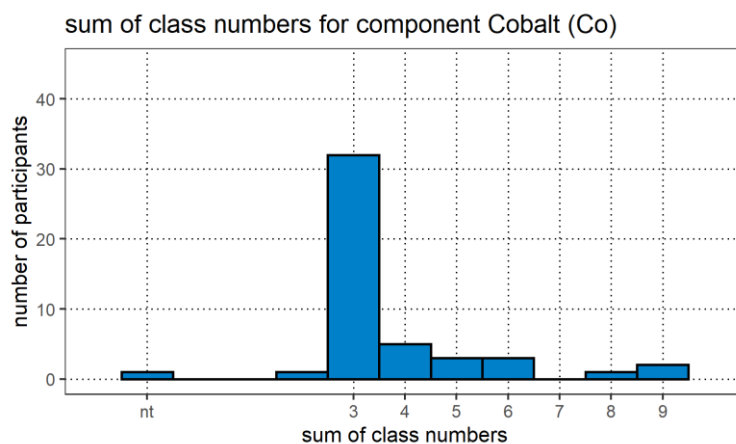
3.1.2 Cadmium



ID	component	result
1070	Cadmium	3
1225	Cadmium	5
1661	Cadmium	5
1763	Cadmium	5
1787	Cadmium	3
1905	Cadmium	5
2038	Cadmium	4
2275	Cadmium	4
2301	Cadmium	5
2412	Cadmium	5
2467	Cadmium	3
2965	Cadmium	9
2992	Cadmium	nt
3791	Cadmium	3
3890	Cadmium	5
4032	Cadmium	4
4099	Cadmium	3
4485	Cadmium	3
4594	Cadmium	3
4684	Cadmium	3
4703	Cadmium	6
4761	Cadmium	3
5200	Cadmium	8
5492	Cadmium	3

ID	component	result
5522	Cadmium	4
5955	Cadmium	6
6429	Cadmium	3
6489	Cadmium	3
6811	Cadmium	4
6983	Cadmium	3
7015	Cadmium	2
7065	Cadmium	4
7113	Cadmium	3
7158	Cadmium	3
7253	Cadmium	6
7281	Cadmium	3
7796	Cadmium	3
7819	Cadmium	3
7860	Cadmium	4
8152	Cadmium	5
8369	Cadmium	3
8449	Cadmium	5
8720	Cadmium	3
9186	Cadmium	4
9411	Cadmium	5
9599	Cadmium	3
9932	Cadmium	3
9970	Cadmium	4

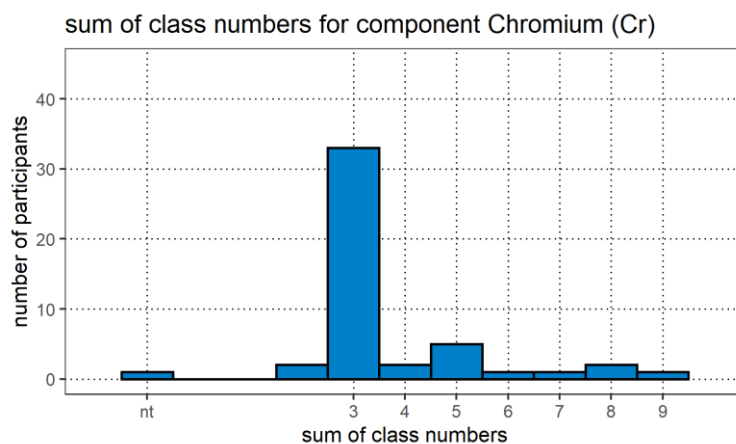
3.1.3 Cobalt



ID	component	result
1070	Cobalt	3
1225	Cobalt	4
1661	Cobalt	5
1763	Cobalt	4
1787	Cobalt	3
1905	Cobalt	6
2038	Cobalt	3
2275	Cobalt	4
2301	Cobalt	6
2412	Cobalt	8
2467	Cobalt	3
2965	Cobalt	9
2992	Cobalt	nt
3791	Cobalt	3
3890	Cobalt	3
4032	Cobalt	4
4099	Cobalt	3
4485	Cobalt	3
4594	Cobalt	3
4684	Cobalt	3
4703	Cobalt	4
4761	Cobalt	3
5200	Cobalt	3
5492	Cobalt	3

ID	component	result
5522	Cobalt	3
5955	Cobalt	6
6429	Cobalt	3
6489	Cobalt	3
6811	Cobalt	3
6983	Cobalt	3
7015	Cobalt	2
7065	Cobalt	3
7113	Cobalt	3
7158	Cobalt	3
7253	Cobalt	5
7281	Cobalt	3
7796	Cobalt	3
7819	Cobalt	3
7860	Cobalt	3
8152	Cobalt	3
8369	Cobalt	3
8449	Cobalt	3
8720	Cobalt	3
9186	Cobalt	3
9411	Cobalt	3
9599	Cobalt	3
9932	Cobalt	9
9970	Cobalt	5

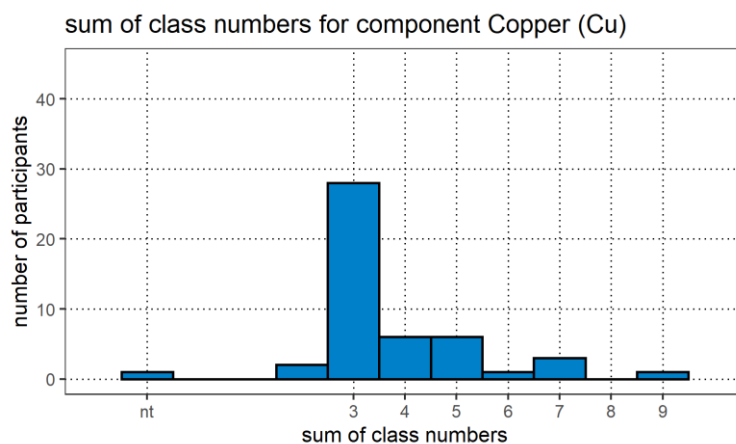
3.1.4 Chromium



ID	component	result
1070	Chromium	3
1225	Chromium	2
1661	Chromium	5
1763	Chromium	3
1787	Chromium	3
1905	Chromium	3
2038	Chromium	3
2275	Chromium	3
2301	Chromium	5
2412	Chromium	8
2467	Chromium	3
2965	Chromium	9
2992	Chromium	nt
3791	Chromium	3
3890	Chromium	3
4032	Chromium	4
4099	Chromium	4
4485	Chromium	3
4594	Chromium	3
4684	Chromium	3
4703	Chromium	3
4761	Chromium	3
5200	Chromium	3
5492	Chromium	3

ID	component	result
5522	Chromium	3
5955	Chromium	6
6429	Chromium	3
6489	Chromium	3
6811	Chromium	3
6983	Chromium	3
7015	Chromium	2
7065	Chromium	3
7113	Chromium	3
7158	Chromium	3
7253	Chromium	5
7281	Chromium	3
7796	Chromium	3
7819	Chromium	3
7860	Chromium	5
8152	Chromium	3
8369	Chromium	3
8449	Chromium	3
8720	Chromium	3
9186	Chromium	3
9411	Chromium	8
9599	Chromium	3
9932	Chromium	7
9970	Chromium	5

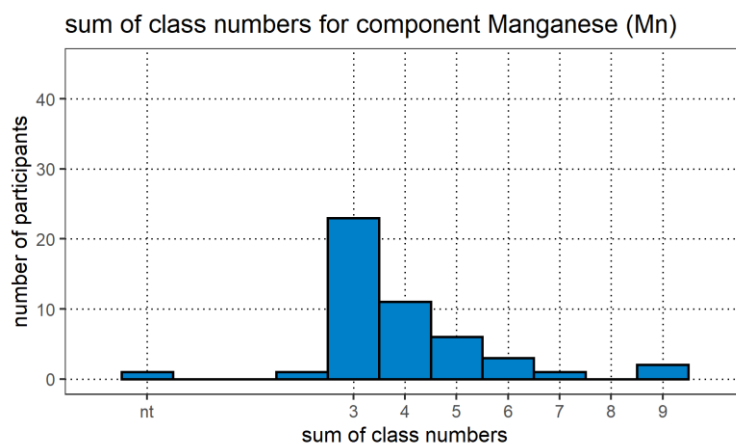
3.1.5 Copper



ID	component	result
1070	Copper	3
1225	Copper	2
1661	Copper	5
1763	Copper	4
1787	Copper	3
1905	Copper	4
2038	Copper	3
2275	Copper	5
2301	Copper	5
2412	Copper	7
2467	Copper	3
2965	Copper	9
2992	Copper	nt
3791	Copper	3
3890	Copper	4
4032	Copper	3
4099	Copper	3
4485	Copper	4
4594	Copper	3
4684	Copper	3
4703	Copper	5
4761	Copper	3
5200	Copper	7
5492	Copper	3

ID	component	result
5522	Copper	3
5955	Copper	6
6429	Copper	3
6489	Copper	3
6811	Copper	4
6983	Copper	4
7015	Copper	2
7065	Copper	3
7113	Copper	3
7158	Copper	3
7253	Copper	5
7281	Copper	3
7796	Copper	3
7819	Copper	3
7860	Copper	3
8152	Copper	3
8369	Copper	3
8449	Copper	5
8720	Copper	3
9186	Copper	3
9411	Copper	3
9599	Copper	3
9932	Copper	7
9970	Copper	3

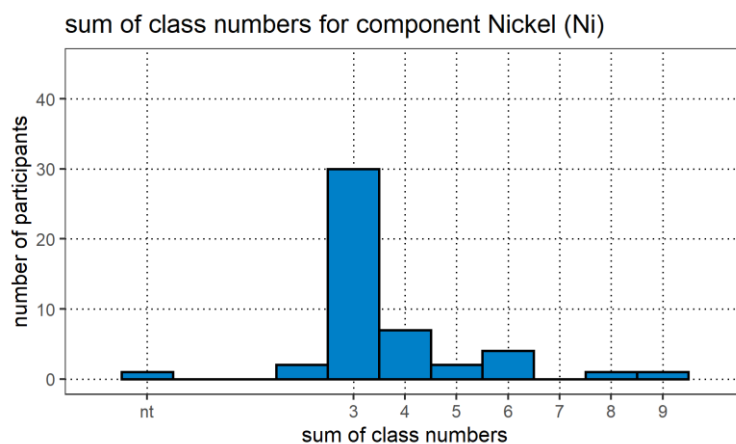
3.1.6 Manganese



ID	component	result
1070	Manganese	3
1225	Manganese	4
1661	Manganese	5
1763	Manganese	7
1787	Manganese	3
1905	Manganese	4
2038	Manganese	3
2275	Manganese	4
2301	Manganese	5
2412	Manganese	6
2467	Manganese	3
2965	Manganese	9
2992	Manganese	nt
3791	Manganese	3
3890	Manganese	5
4032	Manganese	3
4099	Manganese	5
4485	Manganese	3
4594	Manganese	3
4684	Manganese	3
4703	Manganese	4
4761	Manganese	3
5200	Manganese	6
5492	Manganese	5

ID	component	result
5522	Manganese	3
5955	Manganese	6
6429	Manganese	3
6489	Manganese	3
6811	Manganese	4
6983	Manganese	4
7015	Manganese	2
7065	Manganese	4
7113	Manganese	3
7158	Manganese	3
7253	Manganese	5
7281	Manganese	3
7796	Manganese	3
7819	Manganese	4
7860	Manganese	4
8152	Manganese	3
8369	Manganese	3
8449	Manganese	4
8720	Manganese	3
9186	Manganese	4
9411	Manganese	3
9599	Manganese	3
9932	Manganese	9
9970	Manganese	3

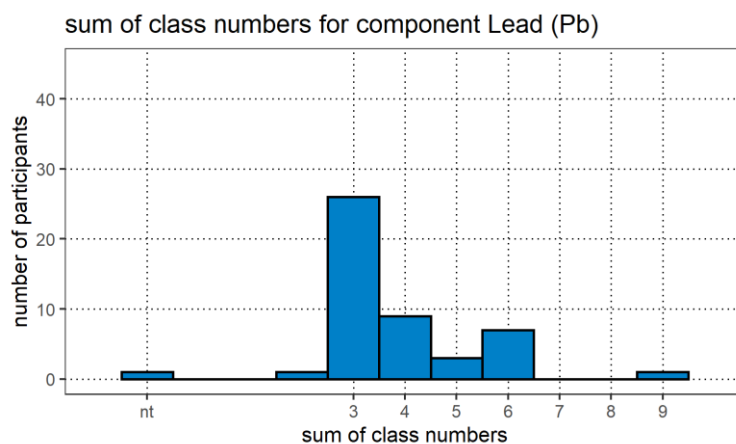
3.1.7 Nickel



ID	component	result
1070	Nickel	3
1225	Nickel	2
1661	Nickel	5
1763	Nickel	4
1787	Nickel	3
1905	Nickel	4
2038	Nickel	3
2275	Nickel	4
2301	Nickel	6
2412	Nickel	8
2467	Nickel	3
2965	Nickel	9
2992	Nickel	nt
3791	Nickel	3
3890	Nickel	3
4032	Nickel	3
4099	Nickel	4
4485	Nickel	3
4594	Nickel	3
4684	Nickel	3
4703	Nickel	4
4761	Nickel	3
5200	Nickel	3
5492	Nickel	3

ID	component	result
5522	Nickel	3
5955	Nickel	6
6429	Nickel	3
6489	Nickel	3
6811	Nickel	3
6983	Nickel	3
7015	Nickel	2
7065	Nickel	3
7113	Nickel	3
7158	Nickel	3
7253	Nickel	6
7281	Nickel	3
7796	Nickel	3
7819	Nickel	3
7860	Nickel	4
8152	Nickel	3
8369	Nickel	3
8449	Nickel	3
8720	Nickel	3
9186	Nickel	4
9411	Nickel	3
9599	Nickel	3
9932	Nickel	6
9970	Nickel	5

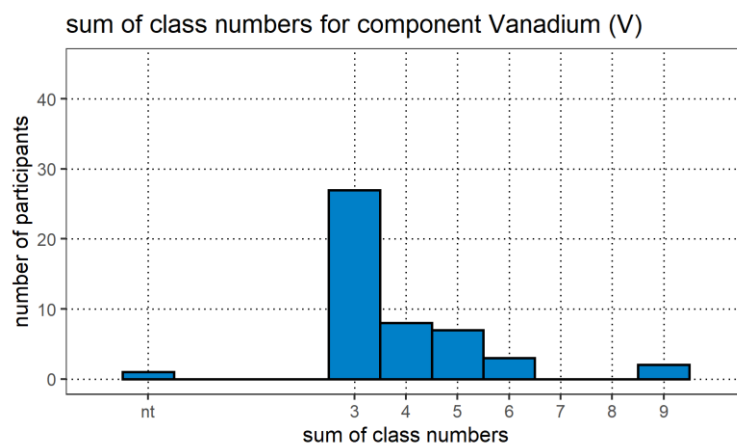
3.1.8 Lead



ID	component	result
1070	Lead	3
1225	Lead	3
1661	Lead	5
1763	Lead	6
1787	Lead	3
1905	Lead	4
2038	Lead	3
2275	Lead	4
2301	Lead	6
2412	Lead	6
2467	Lead	3
2965	Lead	9
2992	Lead	nt
3791	Lead	3
3890	Lead	4
4032	Lead	6
4099	Lead	3
4485	Lead	3
4594	Lead	3
4684	Lead	3
4703	Lead	5
4761	Lead	6
5200	Lead	3
5492	Lead	3

ID	component	result
5522	Lead	4
5955	Lead	6
6429	Lead	3
6489	Lead	3
6811	Lead	4
6983	Lead	3
7015	Lead	2
7065	Lead	4
7113	Lead	3
7158	Lead	3
7253	Lead	6
7281	Lead	3
7796	Lead	3
7819	Lead	3
7860	Lead	3
8152	Lead	5
8369	Lead	3
8449	Lead	4
8720	Lead	3
9186	Lead	4
9411	Lead	3
9599	Lead	3
9932	Lead	4
9970	Lead	3

3.1.9 Vanadium

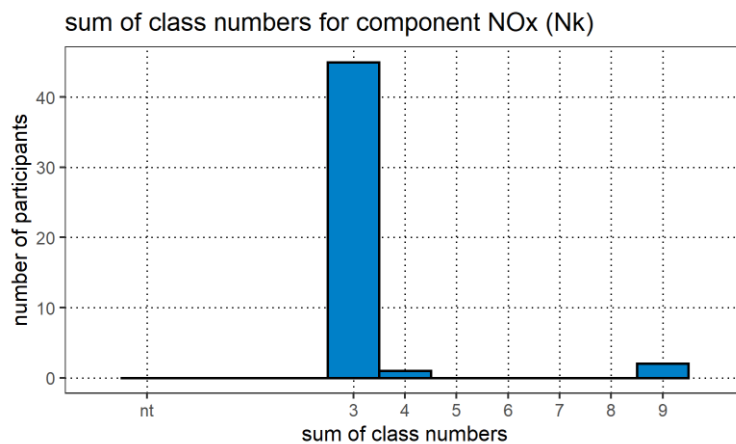


ID	component	result
1070	Vanadium	3
1225	Vanadium	5
1661	Vanadium	5
1763	Vanadium	4
1787	Vanadium	3
1905	Vanadium	4
2038	Vanadium	3
2275	Vanadium	5
2301	Vanadium	5
2412	Vanadium	6
2467	Vanadium	3
2965	Vanadium	9
2992	Vanadium	nt
3791	Vanadium	3
3890	Vanadium	5
4032	Vanadium	5
4099	Vanadium	3
4485	Vanadium	3
4594	Vanadium	3
4684	Vanadium	3
4703	Vanadium	4
4761	Vanadium	3
5200	Vanadium	6
5492	Vanadium	3

ID	component	result
5522	Vanadium	4
5955	Vanadium	4
6429	Vanadium	3
6489	Vanadium	3
6811	Vanadium	4
6983	Vanadium	3
7015	Vanadium	3
7065	Vanadium	4
7113	Vanadium	3
7158	Vanadium	3
7253	Vanadium	6
7281	Vanadium	3
7796	Vanadium	3
7819	Vanadium	3
7860	Vanadium	3
8152	Vanadium	3
8369	Vanadium	3
8449	Vanadium	5
8720	Vanadium	3
9186	Vanadium	4
9411	Vanadium	3
9599	Vanadium	3
9932	Vanadium	9
9970	Vanadium	3

3.2 Gas (Substance Range G)

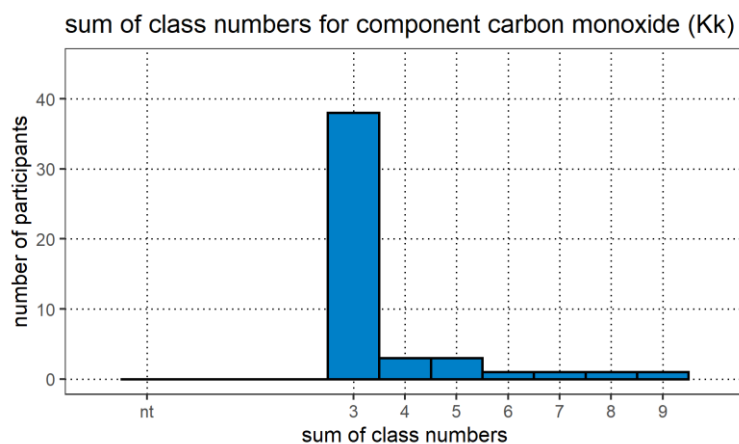
3.2.1 Nitrogen Oxides



ID	component	result
1070	NOx	9
1225	NOx	3
1661	NOx	3
1763	NOx	3
1787	NOx	3
1905	NOx	3
2038	NOx	3
2275	NOx	3
2301	NOx	3
2412	NOx	3
2467	NOx	3
2965	NOx	3
2992	NOx	3
3791	NOx	3
3890	NOx	4
4032	NOx	9
4099	NOx	3
4485	NOx	3
4684	NOx	3
4703	NOx	3
4761	NOx	3
5200	NOx	3
5492	NOx	3
5522	NOx	3

ID	component	result
5955	NOx	3
6024	NOx	3
6429	NOx	3
6764	NOx	3
6811	NOx	3
6983	NOx	3
7015	NOx	3
7065	NOx	3
7113	NOx	3
7158	NOx	3
7253	NOx	3
7281	NOx	3
7796	NOx	3
7819	NOx	3
7860	NOx	3
8152	NOx	3
8369	NOx	3
8449	NOx	3
8720	NOx	3
9186	NOx	3
9411	NOx	3
9599	NOx	3
9932	NOx	3
9970	NOx	3

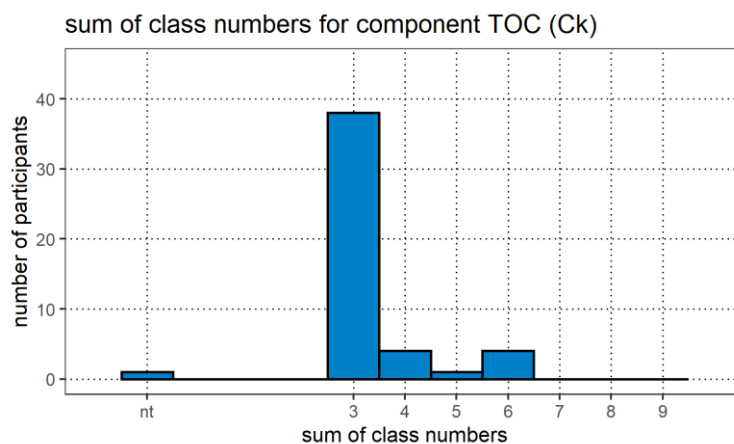
3.2.2 Carbon Monoxide



ID	component	result
1070	carbon monoxide	3
1225	carbon monoxide	3
1661	carbon monoxide	3
1763	carbon monoxide	3
1787	carbon monoxide	3
1905	carbon monoxide	3
2038	carbon monoxide	3
2275	carbon monoxide	5
2301	carbon monoxide	3
2412	carbon monoxide	3
2467	carbon monoxide	3
2965	carbon monoxide	4
2992	carbon monoxide	5
3791	carbon monoxide	4
3890	carbon monoxide	3
4032	carbon monoxide	7
4099	carbon monoxide	3
4485	carbon monoxide	3
4684	carbon monoxide	3
4703	carbon monoxide	3
4761	carbon monoxide	3
5200	carbon monoxide	3
5492	carbon monoxide	3
5522	carbon monoxide	3

ID	component	result
5955	carbon monoxide	3
6024	carbon monoxide	3
6429	carbon monoxide	3
6764	carbon monoxide	3
6811	carbon monoxide	3
6983	carbon monoxide	3
7015	carbon monoxide	3
7065	carbon monoxide	3
7113	carbon monoxide	5
7158	carbon monoxide	3
7253	carbon monoxide	3
7281	carbon monoxide	3
7796	carbon monoxide	3
7819	carbon monoxide	4
7860	carbon monoxide	8
8152	carbon monoxide	3
8369	carbon monoxide	3
8449	carbon monoxide	3
8720	carbon monoxide	3
9186	carbon monoxide	3
9411	carbon monoxide	3
9599	carbon monoxide	9
9932	carbon monoxide	6
9970	carbon monoxide	3

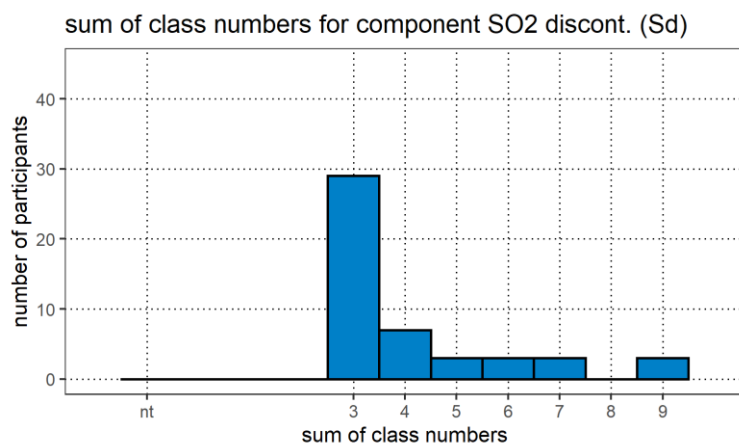
3.2.3 TOC



ID	component	result
1070	TOC	3
1225	TOC	3
1661	TOC	3
1763	TOC	4
1787	TOC	3
1905	TOC	4
2038	TOC	3
2275	TOC	6
2301	TOC	3
2412	TOC	3
2467	TOC	3
2965	TOC	3
2992	TOC	4
3791	TOC	3
3890	TOC	3
4032	TOC	3
4099	TOC	3
4485	TOC	3
4684	TOC	3
4703	TOC	3
4761	TOC	nt
5200	TOC	3
5492	TOC	6
5522	TOC	3

ID	component	result
5955	TOC	3
6024	TOC	6
6429	TOC	3
6764	TOC	3
6811	TOC	3
6983	TOC	6
7015	TOC	3
7065	TOC	3
7113	TOC	3
7158	TOC	3
7253	TOC	3
7281	TOC	3
7796	TOC	3
7819	TOC	3
7860	TOC	3
8152	TOC	3
8369	TOC	3
8449	TOC	3
8720	TOC	3
9186	TOC	5
9411	TOC	3
9599	TOC	4
9932	TOC	3
9970	TOC	3

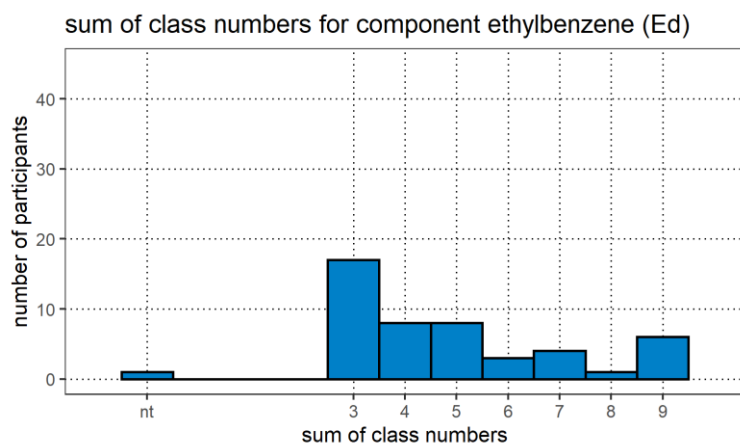
3.2.4 Sulphur Dioxide



ID	component	result
1070	SO2 discont.	6
1225	SO2 discont.	3
1661	SO2 discont.	3
1763	SO2 discont.	3
1787	SO2 discont.	3
1905	SO2 discont.	4
2038	SO2 discont.	3
2275	SO2 discont.	9
2301	SO2 discont.	4
2412	SO2 discont.	5
2467	SO2 discont.	3
2965	SO2 discont.	4
2992	SO2 discont.	6
3791	SO2 discont.	3
3890	SO2 discont.	9
4032	SO2 discont.	3
4099	SO2 discont.	4
4485	SO2 discont.	6
4684	SO2 discont.	3
4703	SO2 discont.	3
4761	SO2 discont.	3
5200	SO2 discont.	4
5492	SO2 discont.	7
5522	SO2 discont.	3

ID	component	result
5955	SO2 discont.	3
6024	SO2 discont.	3
6429	SO2 discont.	3
6764	SO2 discont.	3
6811	SO2 discont.	3
6983	SO2 discont.	7
7015	SO2 discont.	4
7065	SO2 discont.	9
7113	SO2 discont.	5
7158	SO2 discont.	3
7253	SO2 discont.	3
7281	SO2 discont.	3
7796	SO2 discont.	3
7819	SO2 discont.	7
7860	SO2 discont.	4
8152	SO2 discont.	3
8369	SO2 discont.	3
8449	SO2 discont.	3
8720	SO2 discont.	3
9186	SO2 discont.	3
9411	SO2 discont.	5
9599	SO2 discont.	3
9932	SO2 discont.	3
9970	SO2 discont.	3

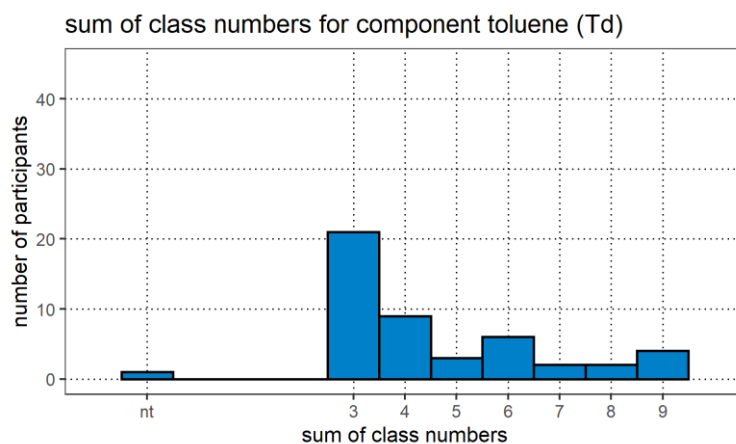
3.2.5 Ethylbenzene



ID	component	result
1070	ethylbenzene	3
1225	ethylbenzene	4
1661	ethylbenzene	3
1763	ethylbenzene	4
1787	ethylbenzene	7
1905	ethylbenzene	5
2038	ethylbenzene	3
2275	ethylbenzene	3
2301	ethylbenzene	3
2412	ethylbenzene	5
2467	ethylbenzene	3
2965	ethylbenzene	6
2992	ethylbenzene	nt
3791	ethylbenzene	3
3890	ethylbenzene	4
4032	ethylbenzene	9
4099	ethylbenzene	9
4485	ethylbenzene	4
4684	ethylbenzene	3
4703	ethylbenzene	3
4761	ethylbenzene	9
5200	ethylbenzene	4
5492	ethylbenzene	5
5522	ethylbenzene	9

ID	component	result
5955	ethylbenzene	4
6024	ethylbenzene	4
6429	ethylbenzene	4
6764	ethylbenzene	3
6811	ethylbenzene	8
6983	ethylbenzene	5
7015	ethylbenzene	3
7065	ethylbenzene	7
7113	ethylbenzene	5
7158	ethylbenzene	3
7253	ethylbenzene	5
7281	ethylbenzene	3
7796	ethylbenzene	6
7819	ethylbenzene	6
7860	ethylbenzene	3
8152	ethylbenzene	5
8369	ethylbenzene	3
8449	ethylbenzene	9
8720	ethylbenzene	3
9186	ethylbenzene	5
9411	ethylbenzene	7
9599	ethylbenzene	3
9932	ethylbenzene	9
9970	ethylbenzene	7

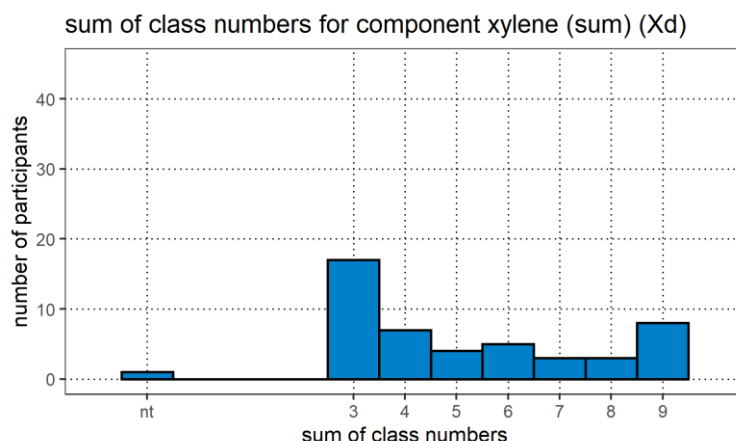
3.2.6 Toluene



ID	component	result
1070	toluene	3
1225	toluene	4
1661	toluene	3
1763	toluene	3
1787	toluene	7
1905	toluene	6
2038	toluene	3
2275	toluene	3
2301	toluene	3
2412	toluene	5
2467	toluene	3
2965	toluene	6
2992	toluene	nt
3791	toluene	3
3890	toluene	4
4032	toluene	8
4099	toluene	6
4485	toluene	3
4684	toluene	3
4703	toluene	3
4761	toluene	9
5200	toluene	4
5492	toluene	3
5522	toluene	9

ID	component	result
5955	toluene	3
6024	toluene	4
6429	toluene	4
6764	toluene	3
6811	toluene	3
6983	toluene	6
7015	toluene	4
7065	toluene	6
7113	toluene	4
7158	toluene	4
7253	toluene	4
7281	toluene	3
7796	toluene	6
7819	toluene	8
7860	toluene	3
8152	toluene	3
8369	toluene	3
8449	toluene	9
8720	toluene	3
9186	toluene	7
9411	toluene	5
9599	toluene	3
9932	toluene	9
9970	toluene	5

3.2.7 Sum of Xylenes



ID	component	result
1070	xylene (sum)	6
1225	xylene (sum)	8
1661	xylene (sum)	3
1763	xylene (sum)	3
1787	xylene (sum)	9
1905	xylene (sum)	3
2038	xylene (sum)	4
2275	xylene (sum)	4
2301	xylene (sum)	3
2412	xylene (sum)	7
2467	xylene (sum)	3
2965	xylene (sum)	7
2992	xylene (sum)	nt
3791	xylene (sum)	3
3890	xylene (sum)	4
4032	xylene (sum)	8
4099	xylene (sum)	9
4485	xylene (sum)	3
4684	xylene (sum)	3
4703	xylene (sum)	4
4761	xylene (sum)	9
5200	xylene (sum)	4
5492	xylene (sum)	9
5522	xylene (sum)	9

ID	component	result
5955	xylene (sum)	3
6024	xylene (sum)	3
6429	xylene (sum)	5
6764	xylene (sum)	3
6811	xylene (sum)	9
6983	xylene (sum)	3
7015	xylene (sum)	5
7065	xylene (sum)	6
7113	xylene (sum)	6
7158	xylene (sum)	3
7253	xylene (sum)	5
7281	xylene (sum)	3
7796	xylene (sum)	6
7819	xylene (sum)	7
7860	xylene (sum)	4
8152	xylene (sum)	4
8369	xylene (sum)	3
8449	xylene (sum)	9
8720	xylene (sum)	3
9186	xylene (sum)	6
9411	xylene (sum)	5
9599	xylene (sum)	3
9932	xylene (sum)	9
9970	xylene (sum)	8

3.3 Odour (Substance range 0)

In odour emission proficiency tests, instead of sums of class numbers a mean value of z scores is calculated. In the following histograms, the participants are allocated to a group by rounding down their mean z-score to the next lower integer.

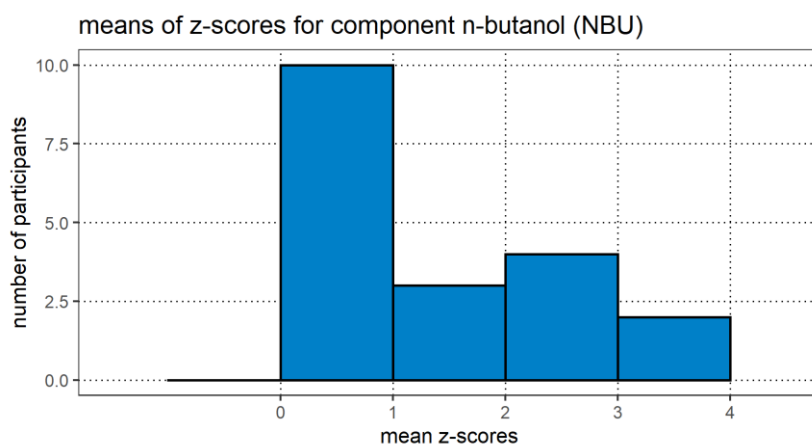
3.3.1 Solvent Mixture (ETX)



ID	component	result
1362	solvent mixture (ETX)	0
1862	solvent mixture (ETX)	5
2548	solvent mixture (ETX)	1
2970	solvent mixture (ETX)	3
3696	solvent mixture (ETX)	2
3914	solvent mixture (ETX)	1
4009	solvent mixture (ETX)	0
4198	solvent mixture (ETX)	3
7054	solvent mixture (ETX)	0
7193	solvent mixture (ETX)	2

ID	component	result
7269	solvent mixture (ETX)	1
7498	solvent mixture (ETX)	3
7746	solvent mixture (ETX)	0
7808	solvent mixture (ETX)	0
8583	solvent mixture (ETX)	2
8804	solvent mixture (ETX)	3
8975	solvent mixture (ETX)	2
9049	solvent mixture (ETX)	3
9590	solvent mixture (ETX)	1

3.3.2 n-Butanol



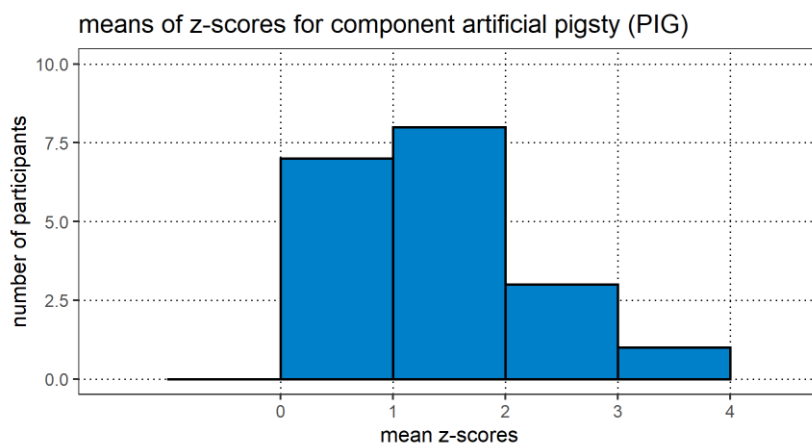
ID	component	result
1362	n-butanol	0
1862	n-butanol	1
2548	n-butanol	1
2970	n-butanol	0

ID	component	result
3696	n-butanol	2
3914	n-butanol	0
4009	n-butanol	2
4198	n-butanol	0

ID	component	result
7054	n-butanol	0
7193	n-butanol	0
7269	n-butanol	0
7498	n-butanol	2
7746	n-butanol	3
7808	n-butanol	1

ID	component	result
8583	n-butanol	0
8804	n-butanol	3
8975	n-butanol	2
9049	n-butanol	0
9590	n-butanol	0

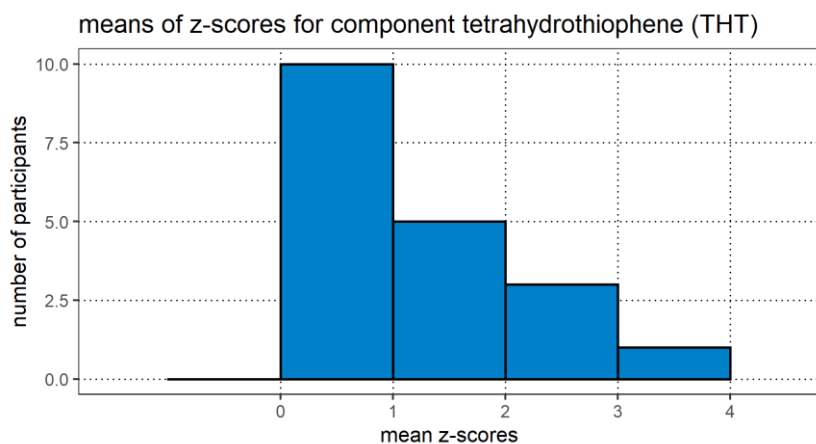
3.3.3 Artificial Pigsty



ID	component	result
1362	artificial pigsty	1
1862	artificial pigsty	2
2548	artificial pigsty	0
2970	artificial pigsty	0
3696	artificial pigsty	0
3914	artificial pigsty	1
4009	artificial pigsty	0
4198	artificial pigsty	1
7054	artificial pigsty	1
7193	artificial pigsty	0

ID	component	result
7269	artificial pigsty	1
7498	artificial pigsty	1
7746	artificial pigsty	0
7808	artificial pigsty	2
8583	artificial pigsty	3
8804	artificial pigsty	1
8975	artificial pigsty	1
9049	artificial pigsty	0
9590	artificial pigsty	2

3.3.4 Tetrahydrothiophene



ID	component	result
1362	tetrahydrothiophene	0
1862	tetrahydrothiophene	1
2548	tetrahydrothiophene	0
2970	tetrahydrothiophene	1
3696	tetrahydrothiophene	2
3914	tetrahydrothiophene	0
4009	tetrahydrothiophene	0
4198	tetrahydrothiophene	2
7054	tetrahydrothiophene	0
7193	tetrahydrothiophene	0

ID	component	result
7269	tetrahydrothiophene	1
7498	tetrahydrothiophene	0
7746	tetrahydrothiophene	1
7808	tetrahydrothiophene	1
8583	tetrahydrothiophene	2
8804	tetrahydrothiophene	3
8975	tetrahydrothiophene	0
9049	tetrahydrothiophene	0
9590	tetrahydrothiophene	0

4. Overall Results

The overall results for the different stack emission proficiency test schemes and sub-areas of these schemes are listed below.

4.1 Dust (Substance Range P)

In 2021, no overall assessment was carried out for substance range P.

4.2 Gas (Substance Range G)

In 2021, no overall assessment was carried out for substance range G.

4.3 Odour (Substance Range O)

ID	PT part	result
1362	olfactometry	passed
1862	olfactometry	failed
2548	olfactometry	passed
2970	olfactometry	failed
3696	olfactometry	passed
3914	olfactometry	passed
4009	olfactometry	passed
4198	olfactometry	failed
7054	olfactometry	passed
7193	olfactometry	passed

ID	PT part	result
7269	olfactometry	passed
7498	olfactometry	failed
7746	olfactometry	failed
7808	olfactometry	passed
8583	olfactometry	failed
8804	olfactometry	failed
8975	olfactometry	passed
9049	olfactometry	failed
9590	olfactometry	passed

4.4 Gas Flow Conditions

In 2021, no overall assessment was carried out for the measurement of the gas flow conditions.

5. Release

Kassel, 12th Mai 2019

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Dr. Jens Cordes

Technical Supervisor
Proficiency Testing

*(Fachlich Verantwortlicher
Ringversuche)*

gez. E. Antonsson

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*(Stellvertretender Fachlich
Verantwortlicher Ringversuche)*

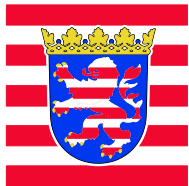
gez. D. Wildanger

Dr. Dominik Wildanger

Head of Department

(Dezernatsleiter)

HESSEN



Hessisches Landesamt für Naturschutz, Umwelt und Geologie
Hessian Agency for Nature Conservation, Environment and Geology

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