

results sample 1

participant	Hydrochloric acid		Nitric acid	
	result [mg/m ³]	z - score	result [mg/m ³]	z - score
6	1,129	2,1	1,944	1,6
31	1,540	0,8	2,495	0,7
59	2,785	9,6	2,469	0,6
68	1,470	0,3	2,550	1,0
74	1,350	0,5	2,320	0,0
78	k.A.	k.A.	k.A.	k.A.
80	1,252	1,2	2,105	0,9
82	1,485	0,4	2,521	0,8
110	0,904	3,6	2,032	1,3
114	1,267	1,1	2,023	1,3
116	1,793	2,6	2,490	0,7
141	1,677	1,8	2,708	1,6
144	1,330	0,6	2,000	1,4
151	1,575	1,1	2,523	0,9
174	1,442	0,1	2,417	0,4
175	1,400	0,1	2,300	0,1
177	1,390	0,2	2,140	0,8
178	1,330	0,6	2,310	0,1
195	1,027	2,8	1,993	1,4
196	1,559	1,0	2,560	1,0
202	1,560	1,0	2,590	1,1

With signed fields are outliers!

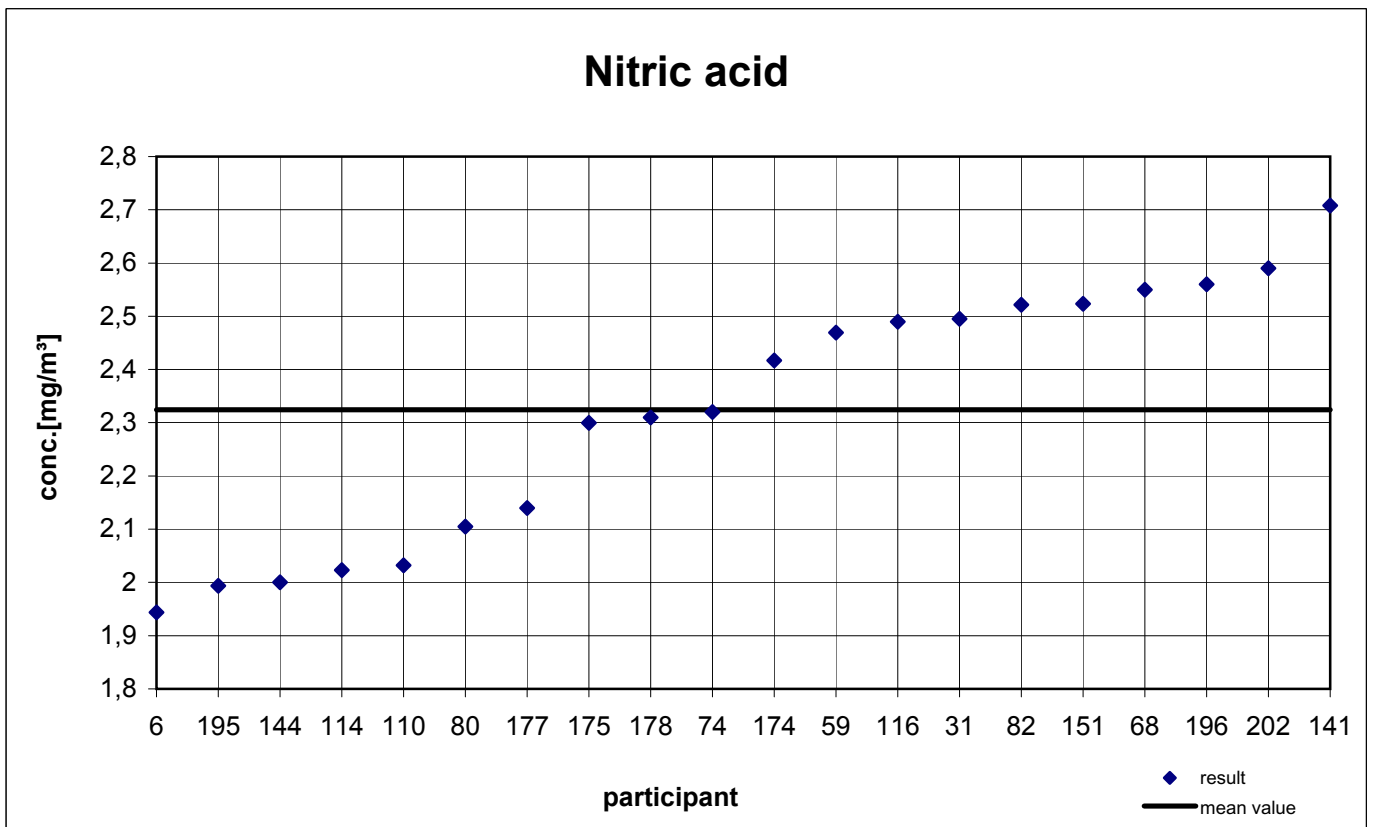
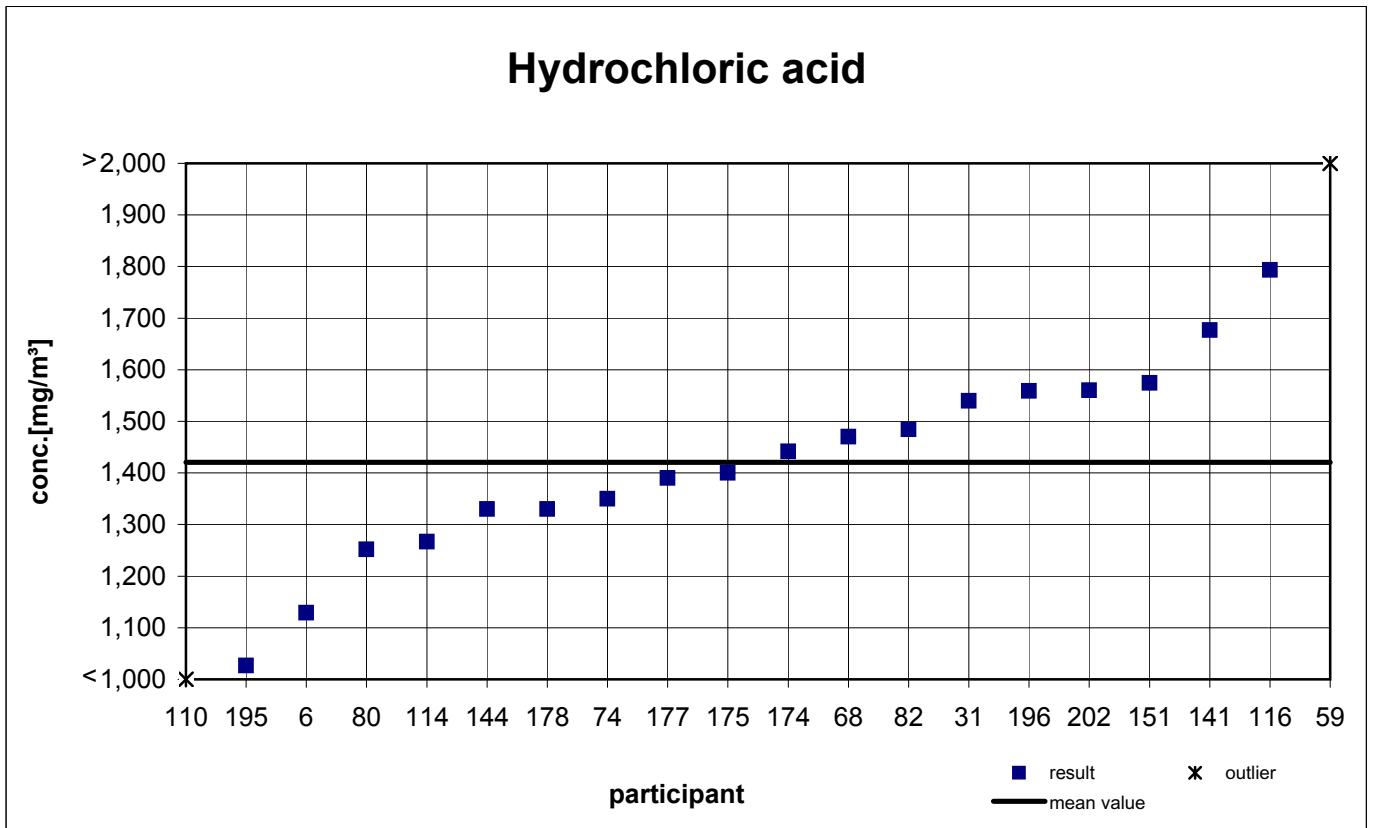
	Hydrochloric acid	Nitric acid
mean c_k [mg / m ³]	1,421	2,325
standard deviation S_k [mg / m ³]	0,1883	0,2413
relative standard deviation [%]	13,26	10,38

participant	Phosphoric acid		Sulfuric acid	
	result [mg/m ³]	z - score	result [mg/m ³]	z - score
5	k.A.	k.A.	0,0320	0,8
31	0,155	0,5	0,0280	0,5
59	0,154	0,4	0,0349	1,8
74	0,126	1,5	0,0270	0,9
78	0,153	0,3	0,0283	0,4
116	0,120	1,9	0,0337	1,4
144	0,210	4,2	0,0700	13,7
151	0,146	0,1	0,0229	2,3
174	0,140	0,5	0,0270	0,9
175	0,170	1,5	0,0310	0,5
177	0,140	0,6	0,0300	0,1
178	0,180	2,1	0,0300	0,1
195	0,147	0,1	0,0300	0,1

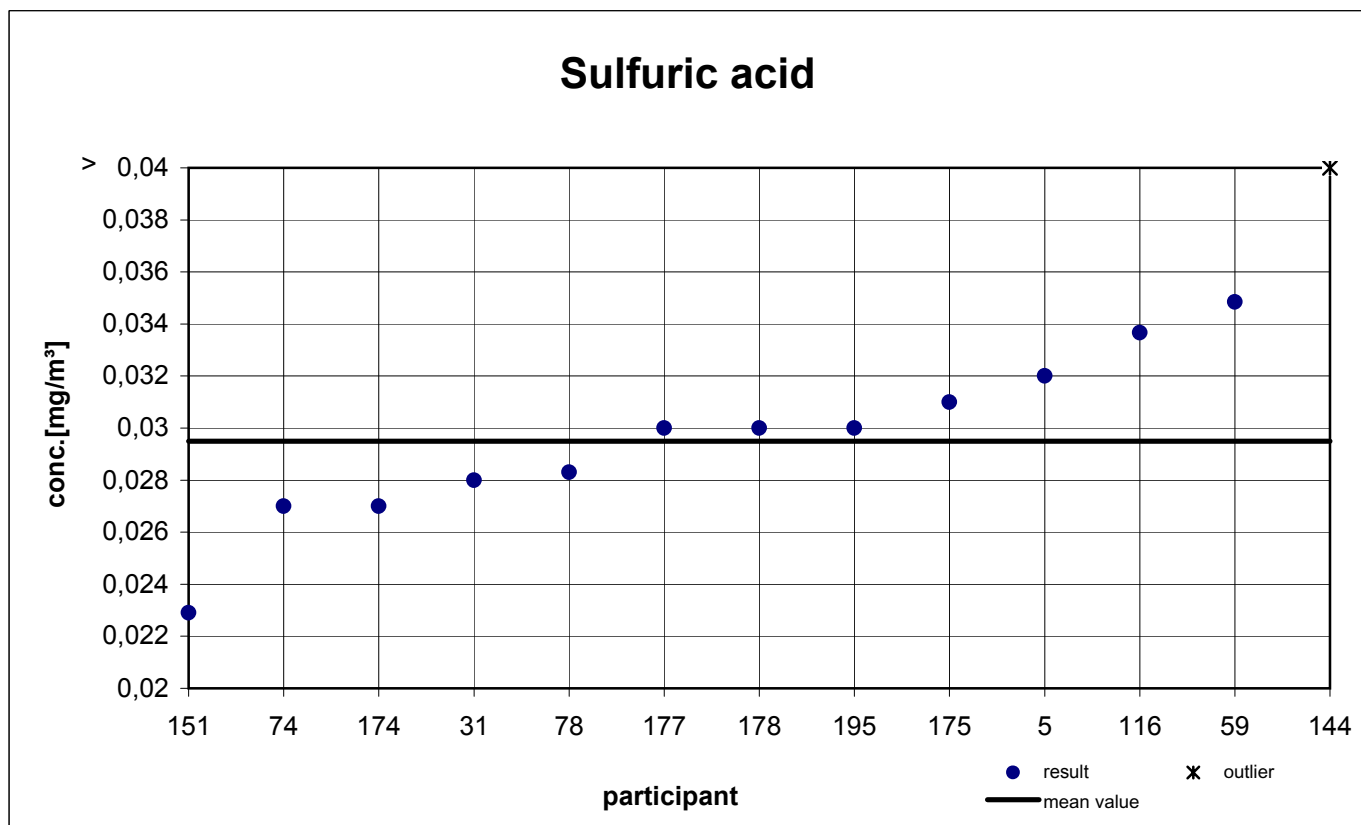
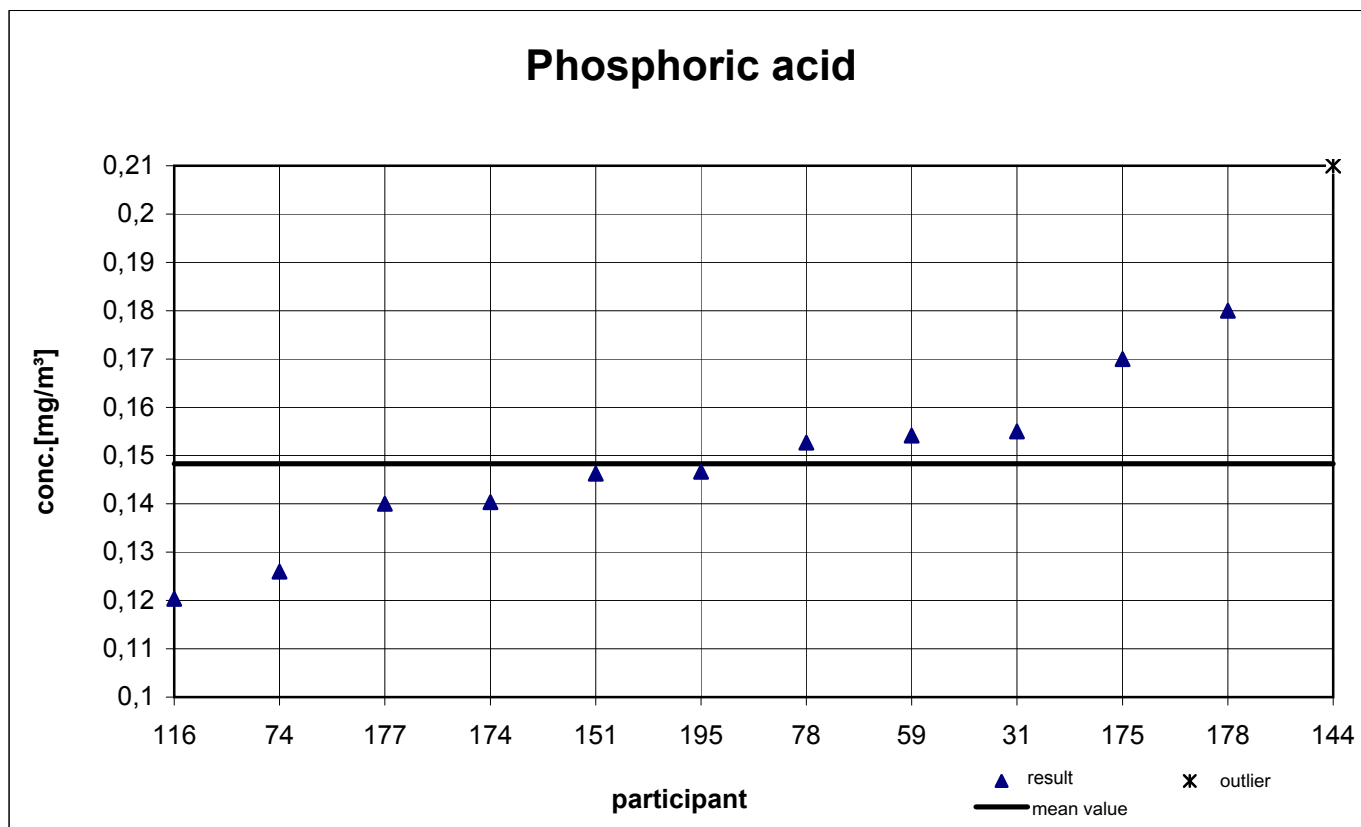
With 0,210 signed fields are outliers!

	Phosphoric acid	Sulphuric acid
mean c_k [mg / m ³]	0,148	0,0295
standard deviation S_k [mg / m ³]	0,0172	0,0032
relative standard deviation [%]	11,66	10,94

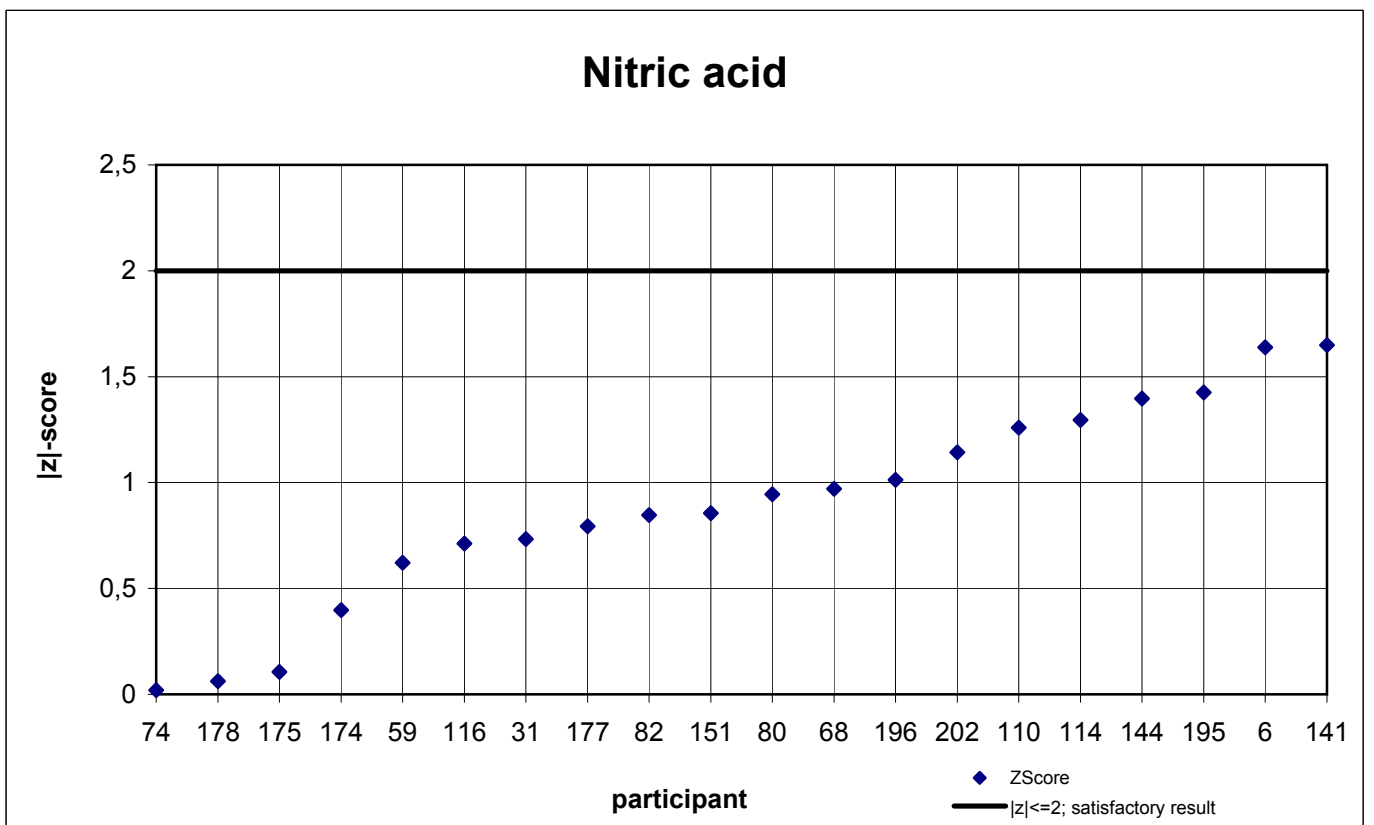
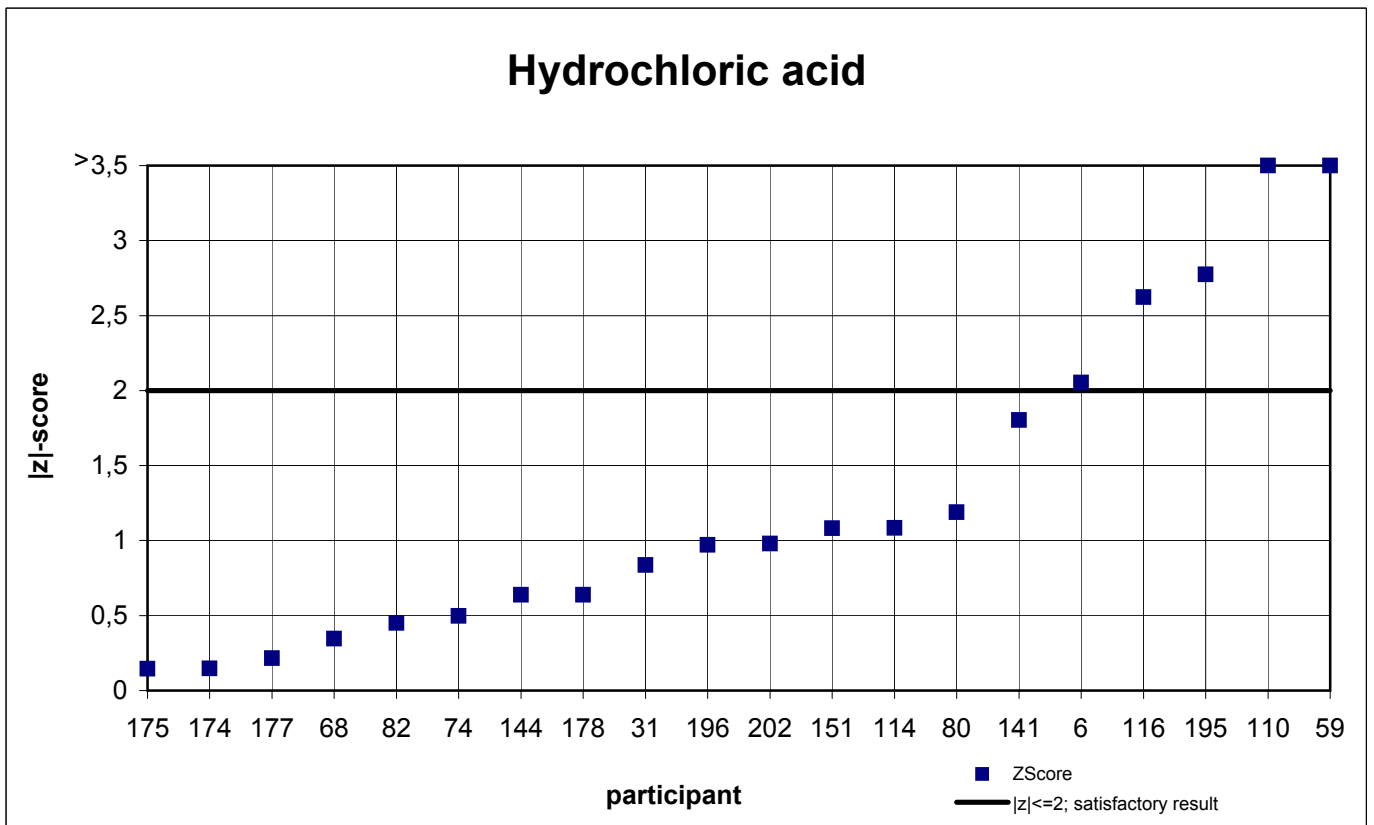
results sample 1



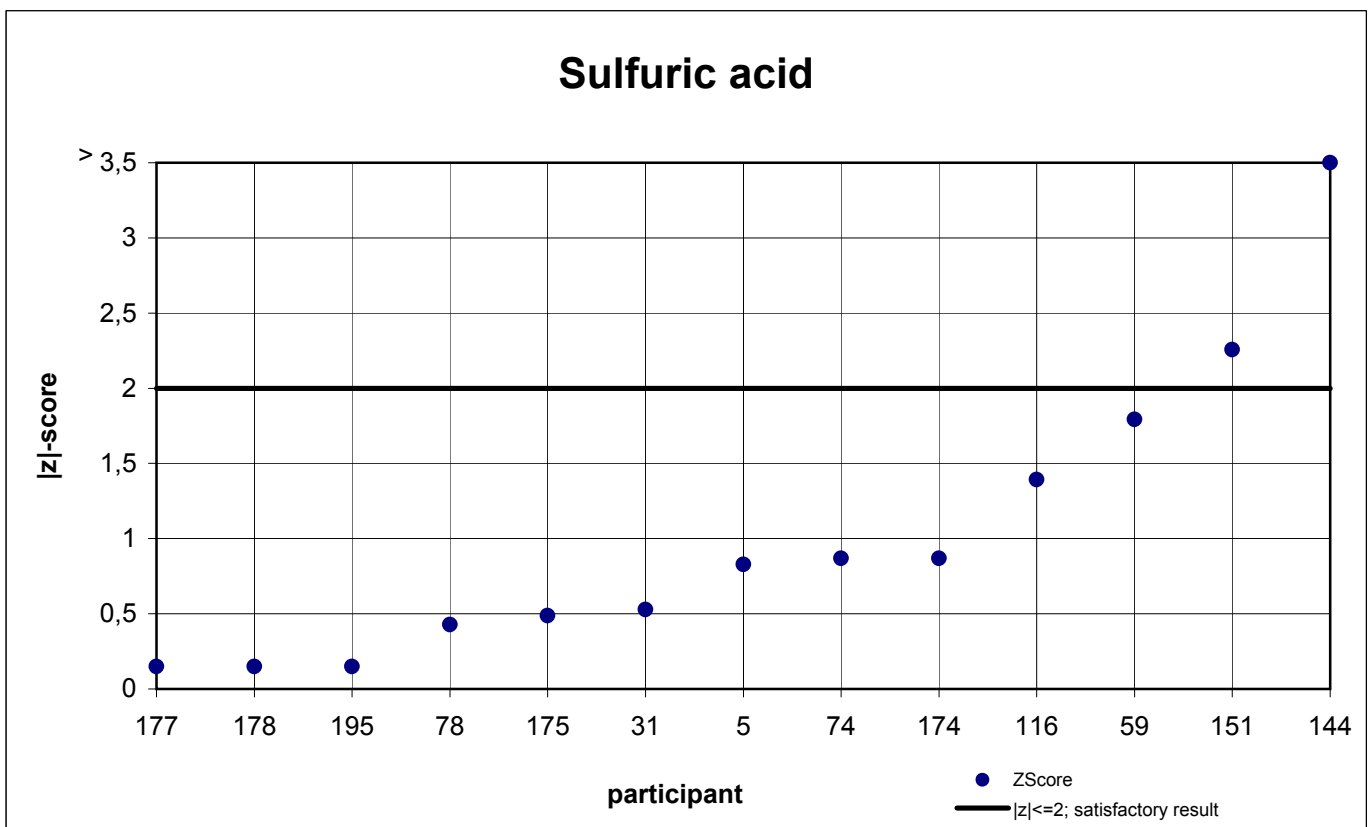
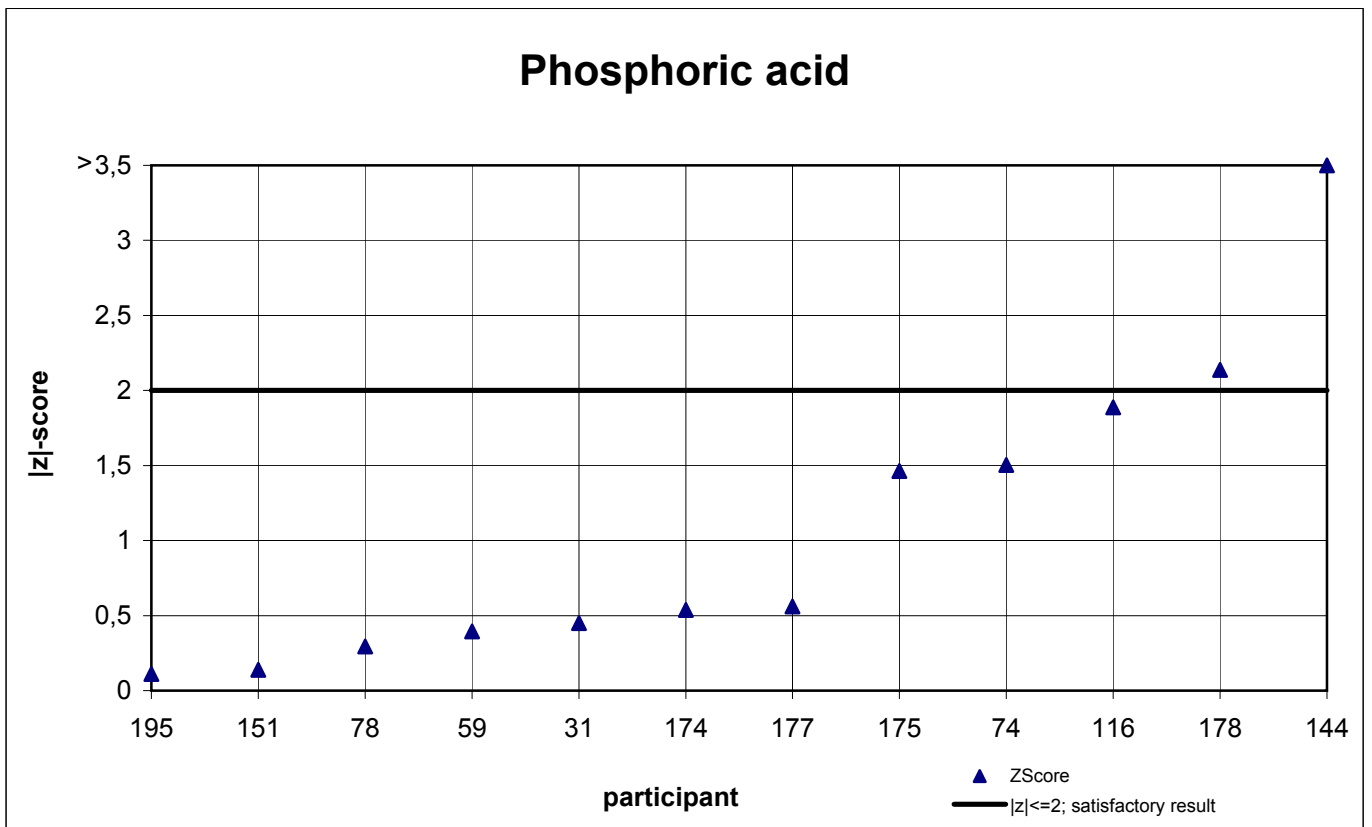
results filter 1



|z|-scores sample 1



|z|-scores filter 1



results sample 2

participant	Hydrochloric acid		Nitric acid	
	result [mg/m ³]	z - score	result [mg/m ³]	z - score
6	2,585	0,7	4,177	0,3
31	2,562	0,6	4,210	0,4
59	2,898	2,0	4,327	0,8
68	2,510	0,4	4,200	0,4
74	2,230	0,8	4,000	0,2
78	2,463	0,2	4,193	0,4
80	2,175	1,0	3,732	1,0
82	2,571	0,6	4,260	0,6
110	1,887	2,2	3,908	0,5
114	2,100	1,3	3,777	0,9
116	3,043	2,6	4,843	2,3
141	2,676	1,1	4,315	0,7
144	2,000	1,7	3,660	1,2
151	2,498	0,3	4,105	0,1
174	2,391	0,1	4,063	0,0
175	2,400	0,1	3,800	0,8
177	2,480	0,3	3,620	1,3
178	2,320	0,4	3,960	0,3
195	1,953	1,9	3,543	1,6
196	2,250	0,7	4,030	0,1
202	2,730	1,3	4,720	2,0

With signed fields are outliers!

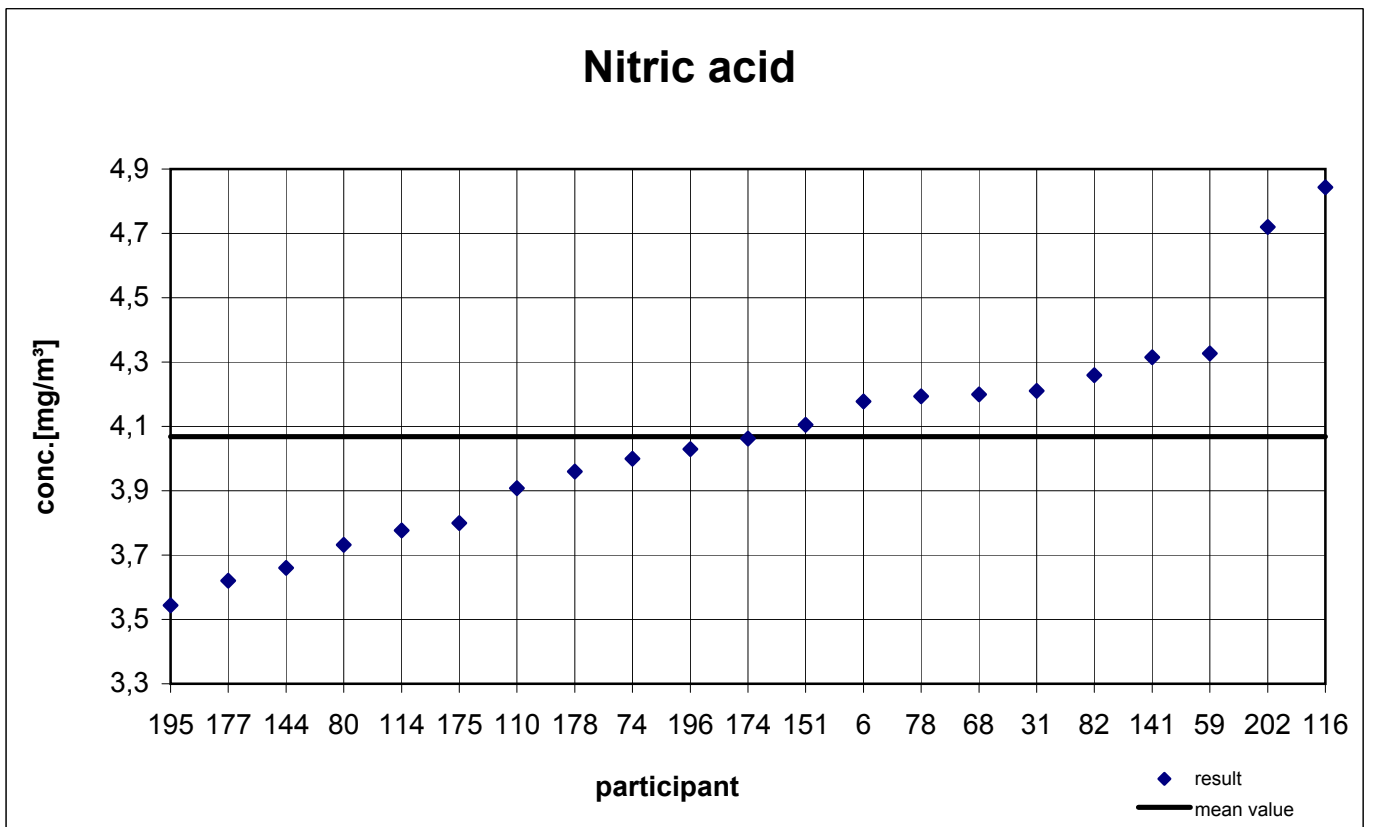
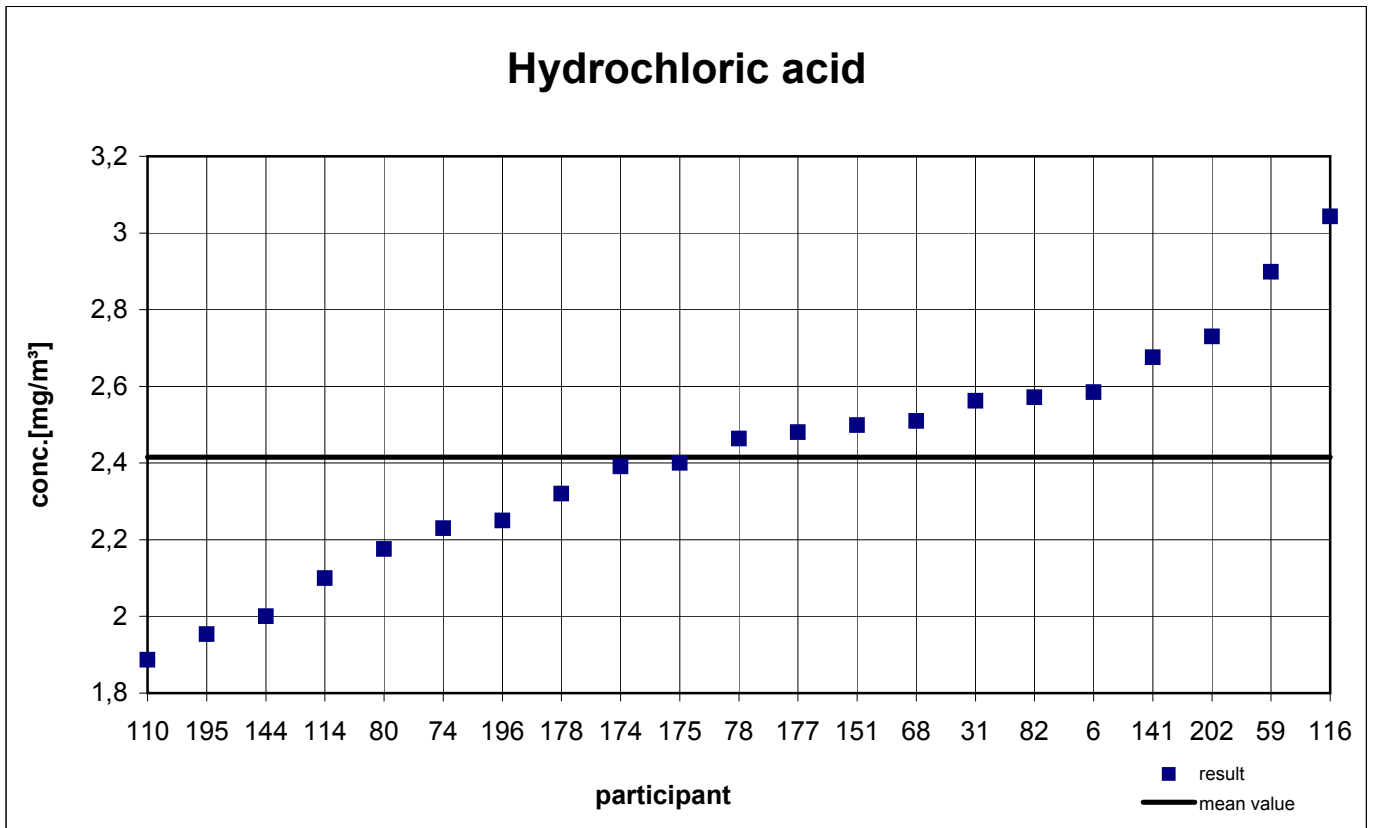
	Hydrochloric acid	Nitric acid
mean c_k [mg / m ³]	2,415	4,069
standard deviation S_k [mg / m ³]	0,2987	0,3326
relative standard deviation [%]	12,37	8,18

participant	Phosphoric acid		Sulfuric acid	
	result [mg/m ³]	z - score	result [mg/m ³]	z - score
5	k.A.	k.A.	0,204	0,6
31	0,174	0,3	0,228	0,5
59	0,182	0,2	0,228	0,5
74	0,171	0,4	0,211	0,3
78	0,179	0,0	0,229	0,6
116	0,153	1,5	0,202	0,7
144	0,210	1,8	0,310	4,3
151	0,172	0,4	0,206	0,5
174	0,172	0,4	0,218	0,0
175	0,190	0,7	0,310	4,3
177	0,160	1,1	0,210	0,3
178	0,210	1,8	0,240	1,1
195	0,170	0,5	0,210	0,3

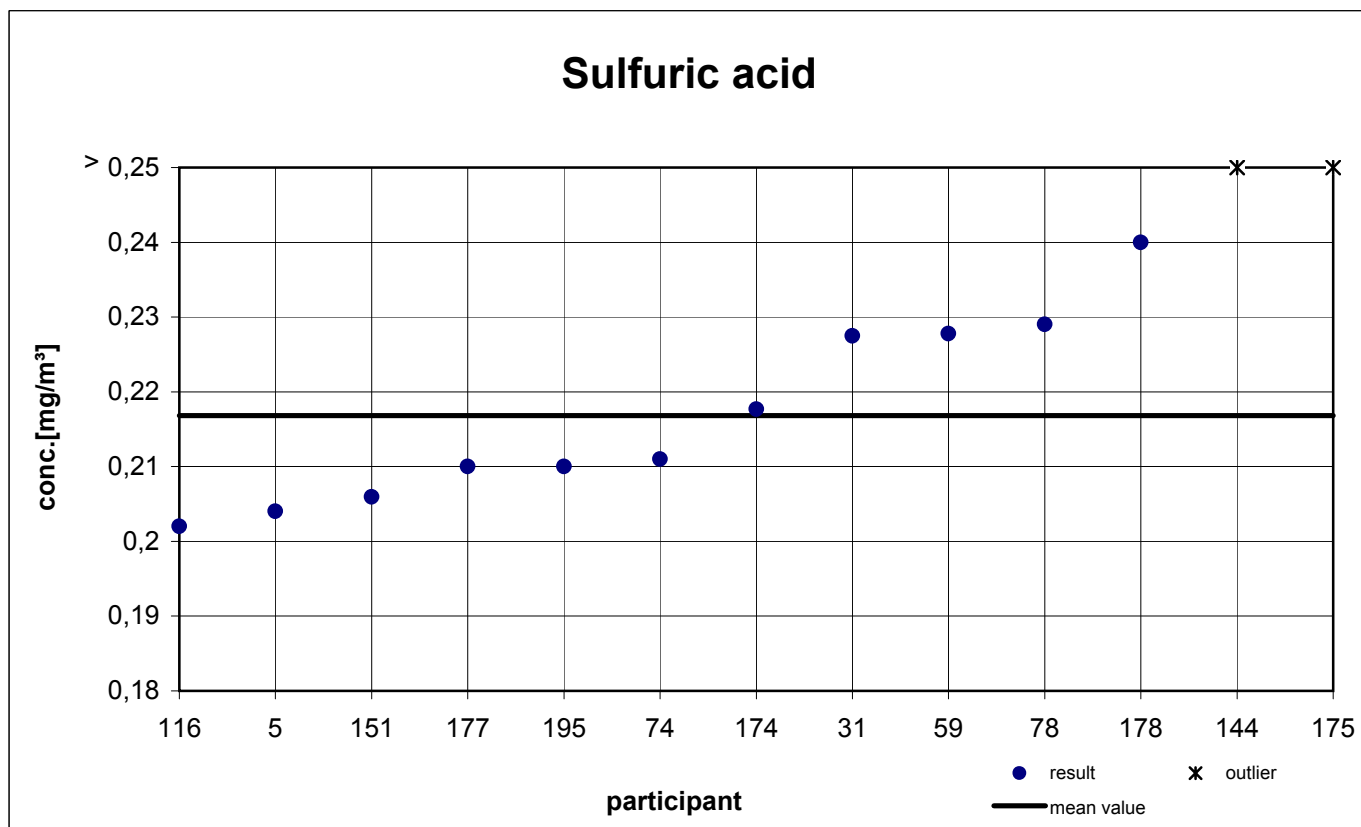
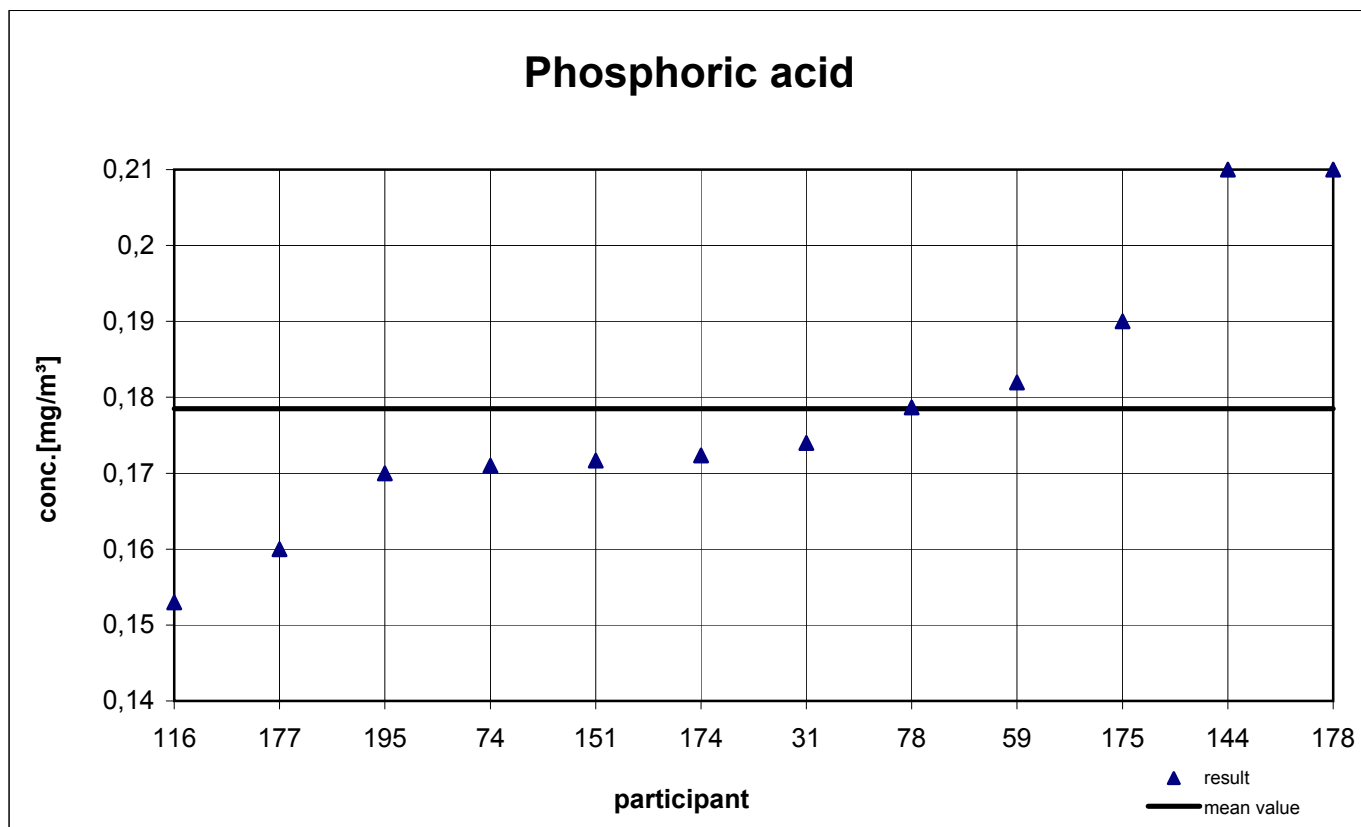
With 0,310 signed fields are outliers!

	Phosphoric acid	Sulphuric acid
mean c_k [mg / m ³]	0,179	0,217
standard deviation S_k [mg / m ³]	0,0174	0,0124
relative standard deviation [%]	9,78	5,74

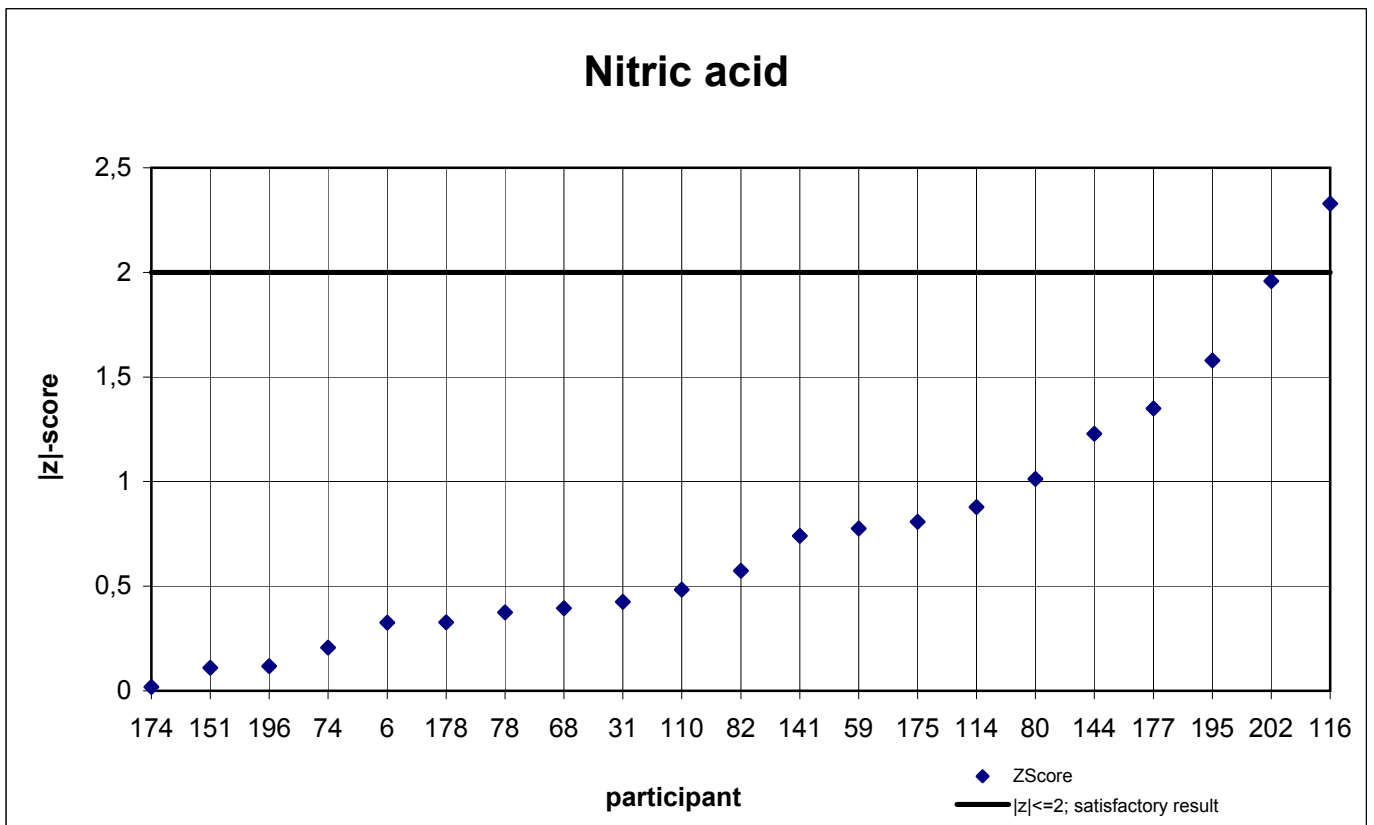
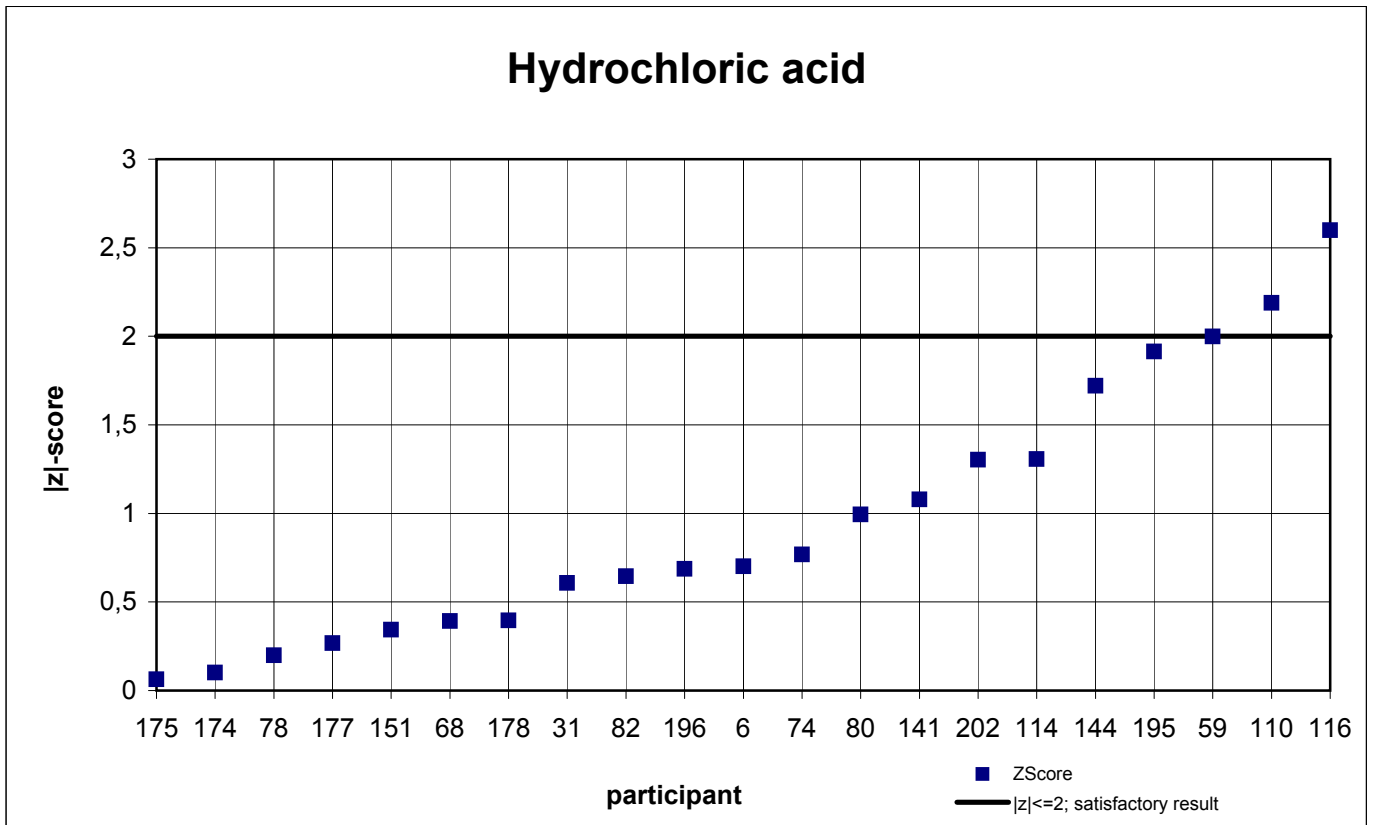
results sample 2



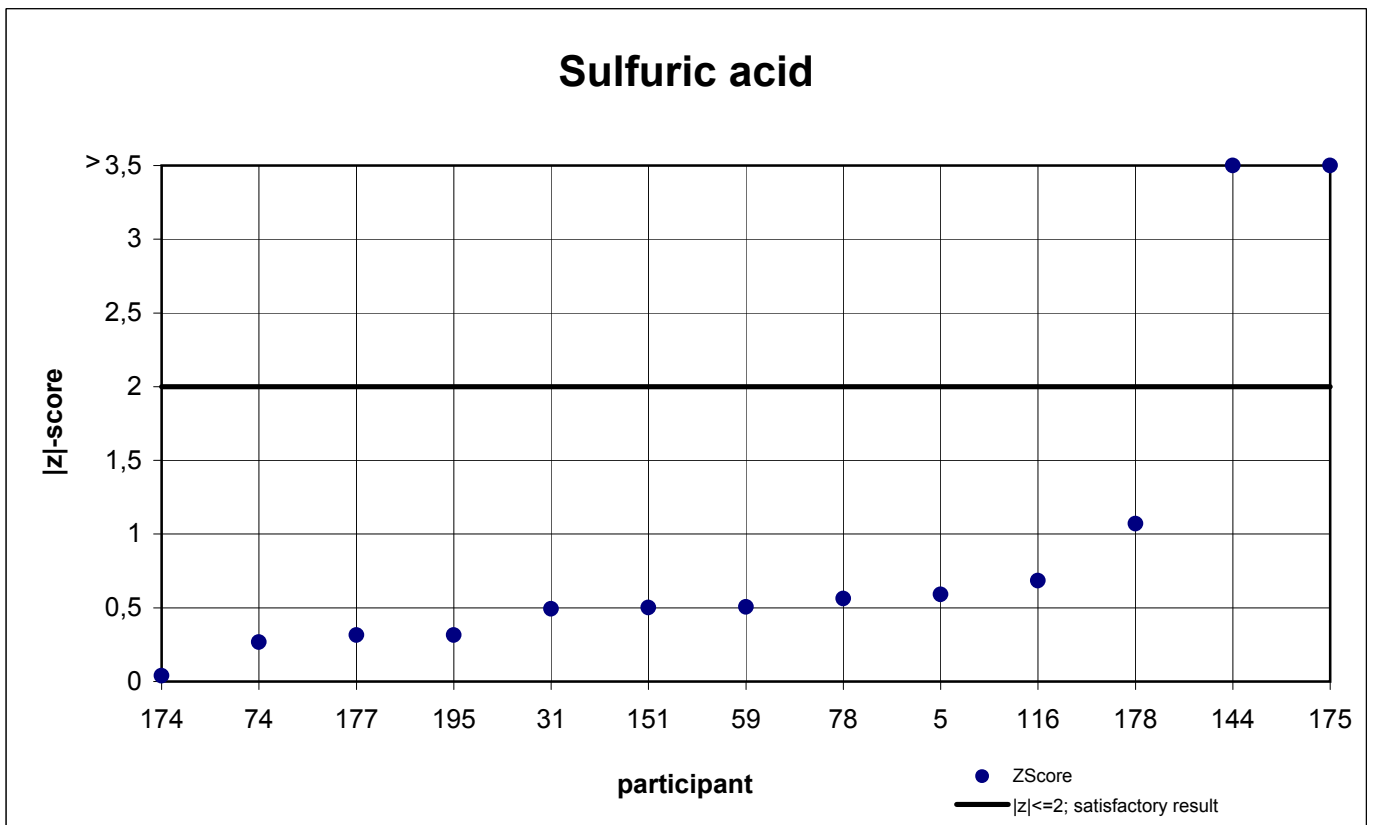
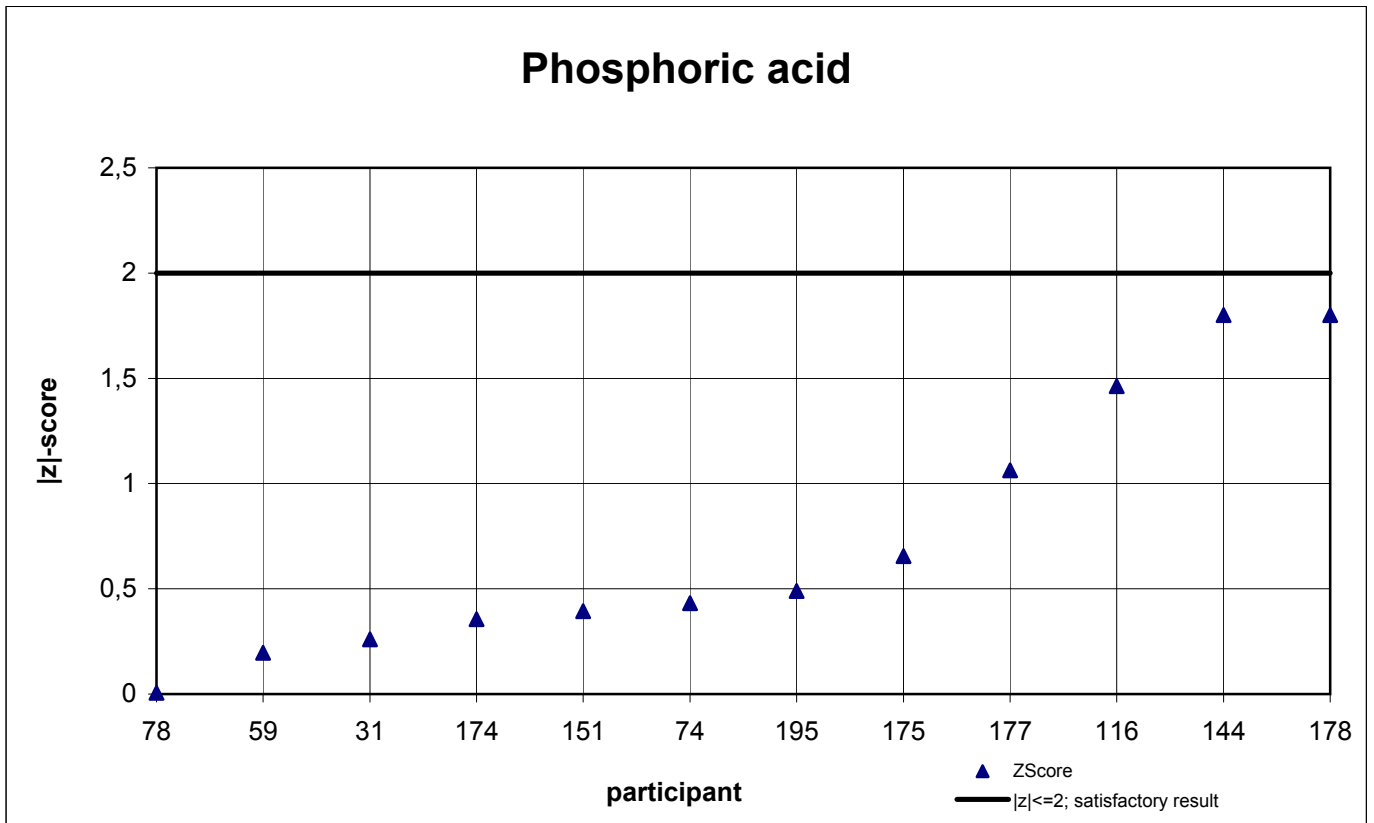
results filter 2



|z|-scores sample 2



|z|-scores filter 2



results sample 3

participant	Hydrochloric acid		Nitric acid	
	result [mg/m ³]	z - score	result [mg/m ³]	z - score
6	4,356	0,4	6,961	0,8
31	4,217	0,1	6,687	0,0
59	5,254	2,6	6,567	0,4
68	4,200	0,1	6,780	0,3
74	3,950	0,5	6,660	0,1
78	4,243	0,2	6,927	0,7
80	4,049	0,3	6,532	0,5
82	4,331	0,4	6,995	0,9
110	3,477	1,7	9,120	7,2
114	3,410	1,8	6,067	1,8
116	5,007	2,0	8,057	4,0
141	4,303	0,3	6,989	0,9
144	3,660	1,2	6,330	1,1
151	4,153	0,1	6,692	0,0
174	4,065	0,3	6,544	0,4
175	4,000	0,4	6,200	1,4
177	4,400	0,5	6,120	1,7
178	4,170	0,0	6,810	0,4
195	4,013	0,4	6,783	0,3
196	3,914	0,6	7,189	1,5
202	4,510	0,8	7,270	1,7

With signed fields are outliers!

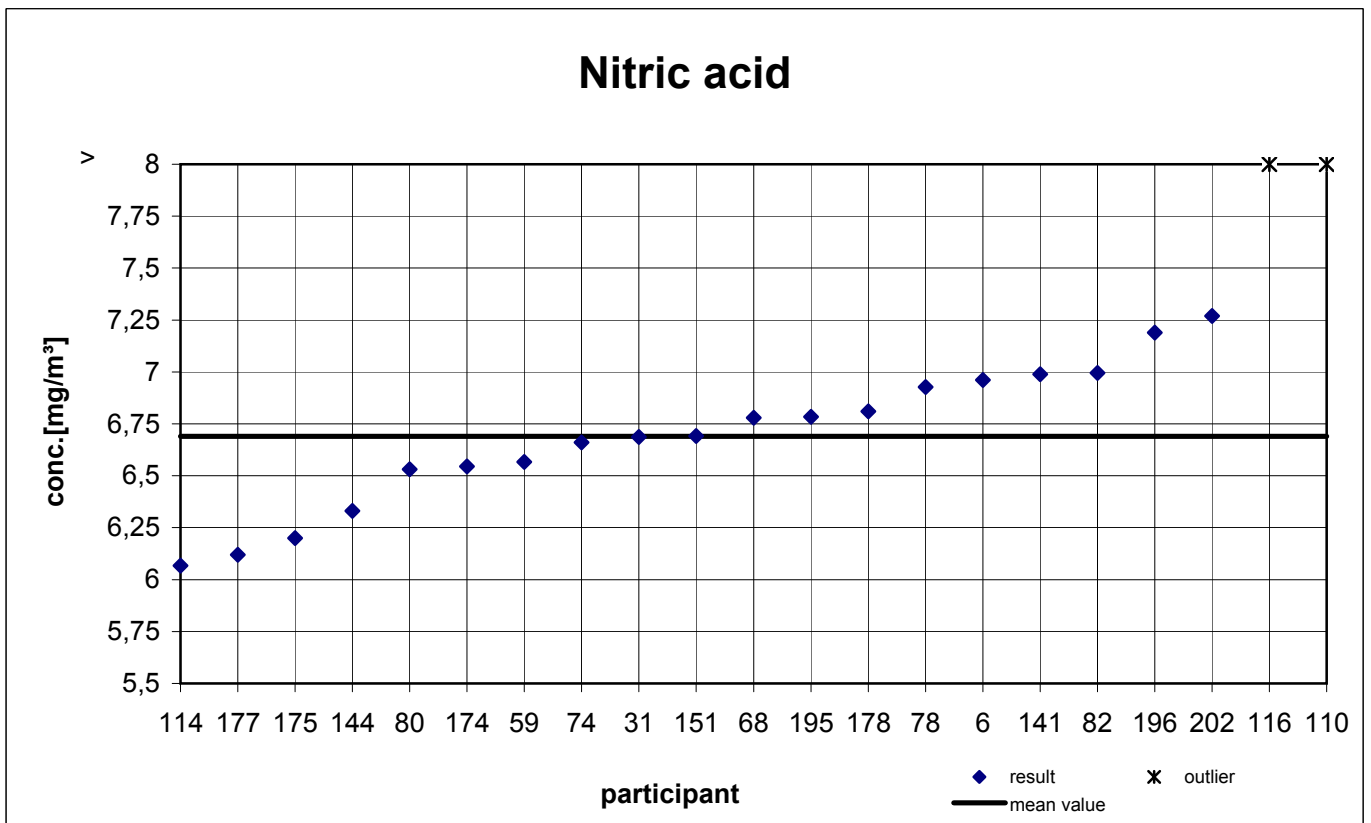
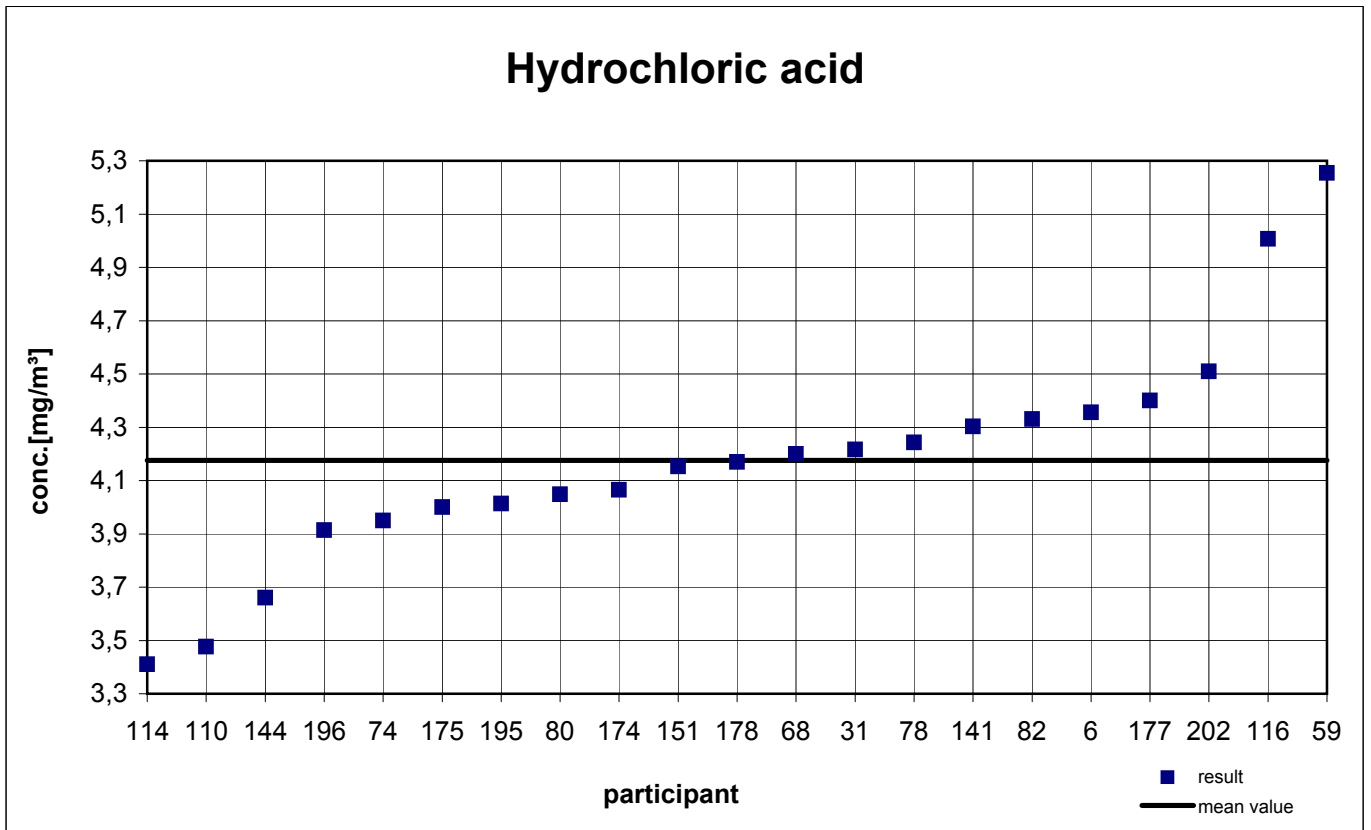
	Hydrochloric acid	Nitric acid
mean c_k [mg / m ³]	4,175	6,690
standard deviation S_k [mg / m ³]	0,4267	0,3394
relative standard deviation [%]	10,22	5,07

participant	Phosphoric acid		Sulfuric acid	
	result [mg/m ³]	z - score	result [mg/m ³]	z - score
5	k.A.	k.A.	0,593	0,4
31	1,579	0,6	0,573	0,0
59	1,513	0,5	0,548	0,6
74	1,560	0,2	0,543	0,7
78	1,577	0,5	0,573	0,1
116	1,405	2,3	0,495	1,7
144	1,620	1,2	0,620	0,9
151	1,571	0,4	0,554	0,4
174	1,514	0,5	0,543	0,7
175	1,600	0,9	0,570	0,1
177	1,510	0,6	0,560	0,3
178	2,480	15,1	0,690	2,4
195	1,843	4,8	0,613	0,8

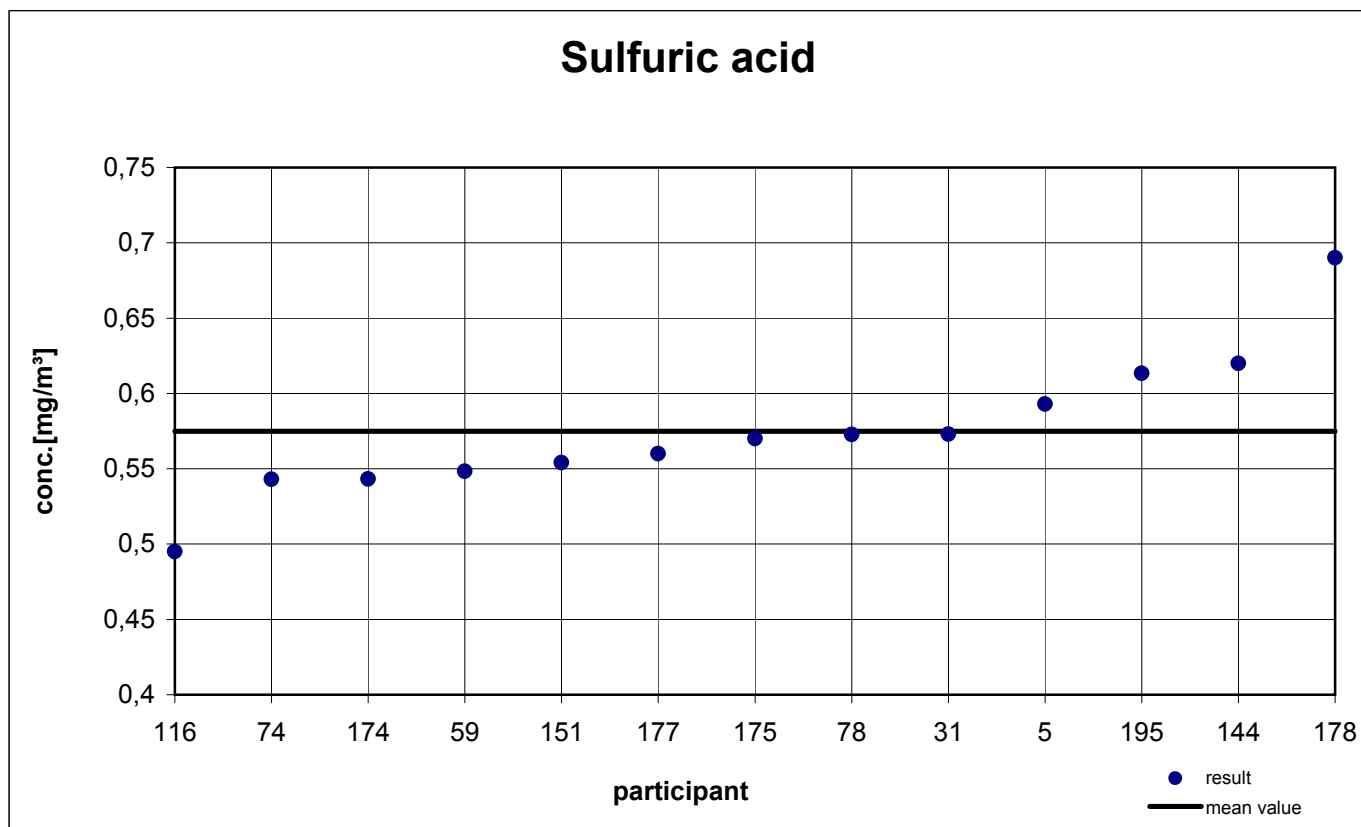
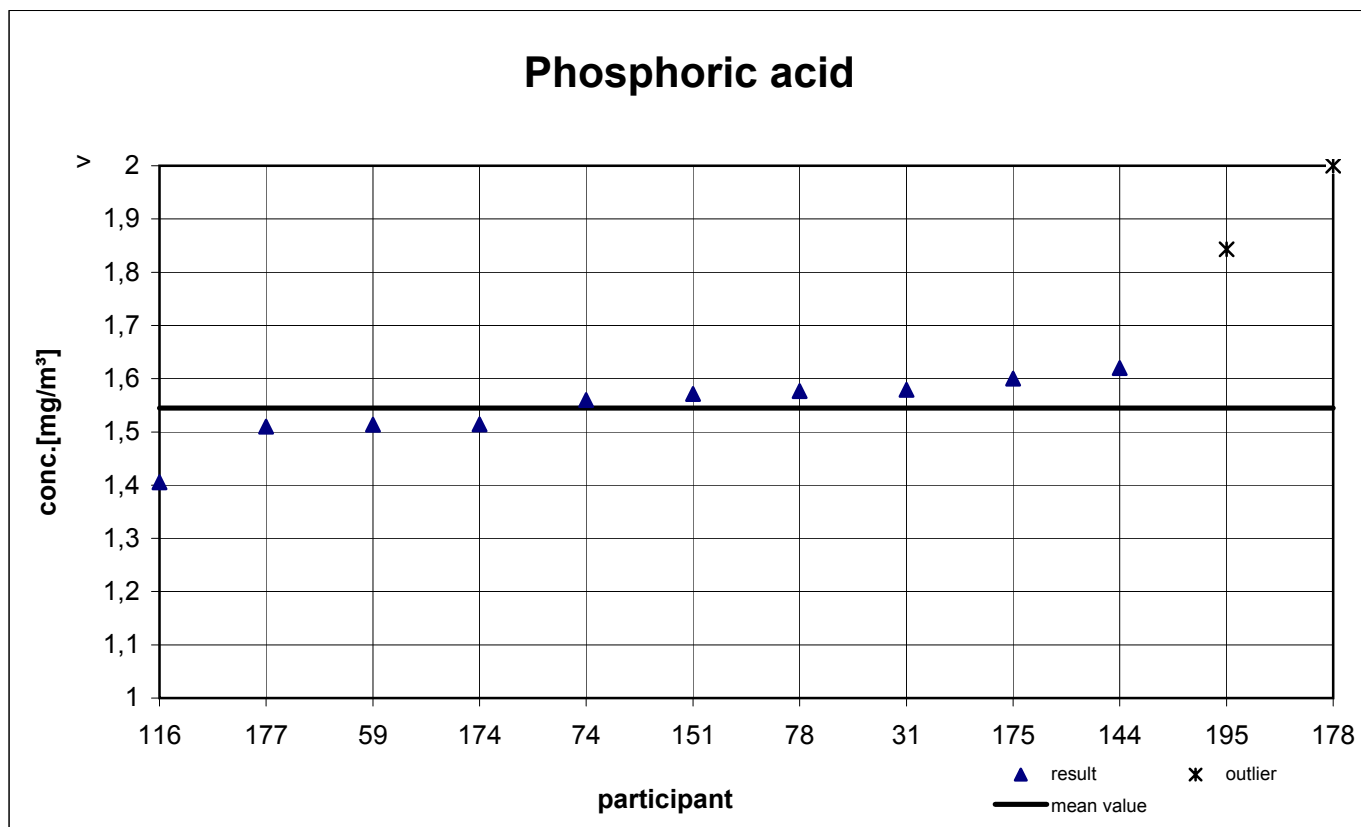
With signed fields are outliers!

	Phosphoric acid	Sulphuric acid
mean c_k [mg / m ³]	1,545	0,575
standard deviation S_k [mg / m ³]	0,0618	0,0473
relative standard deviation [%]	4,00	8,23

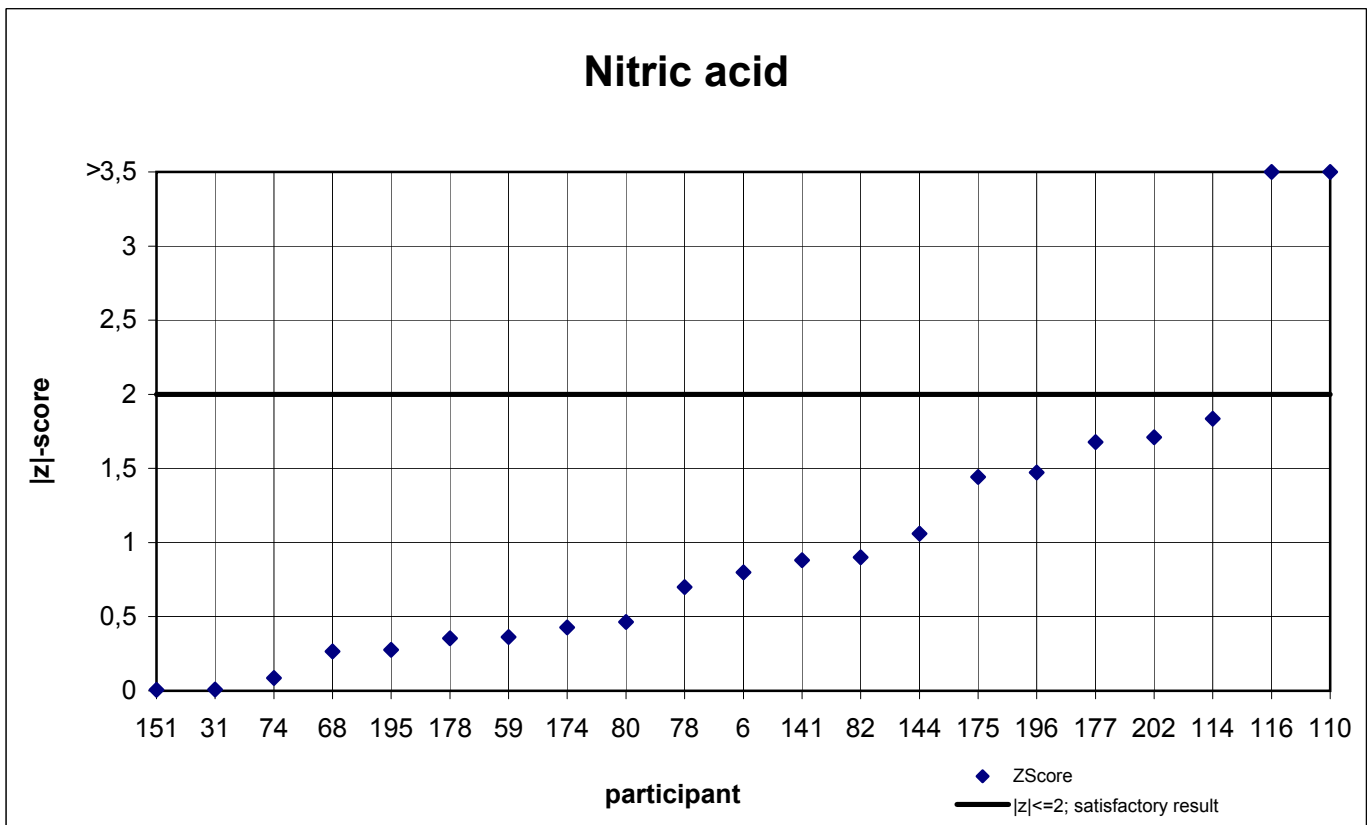
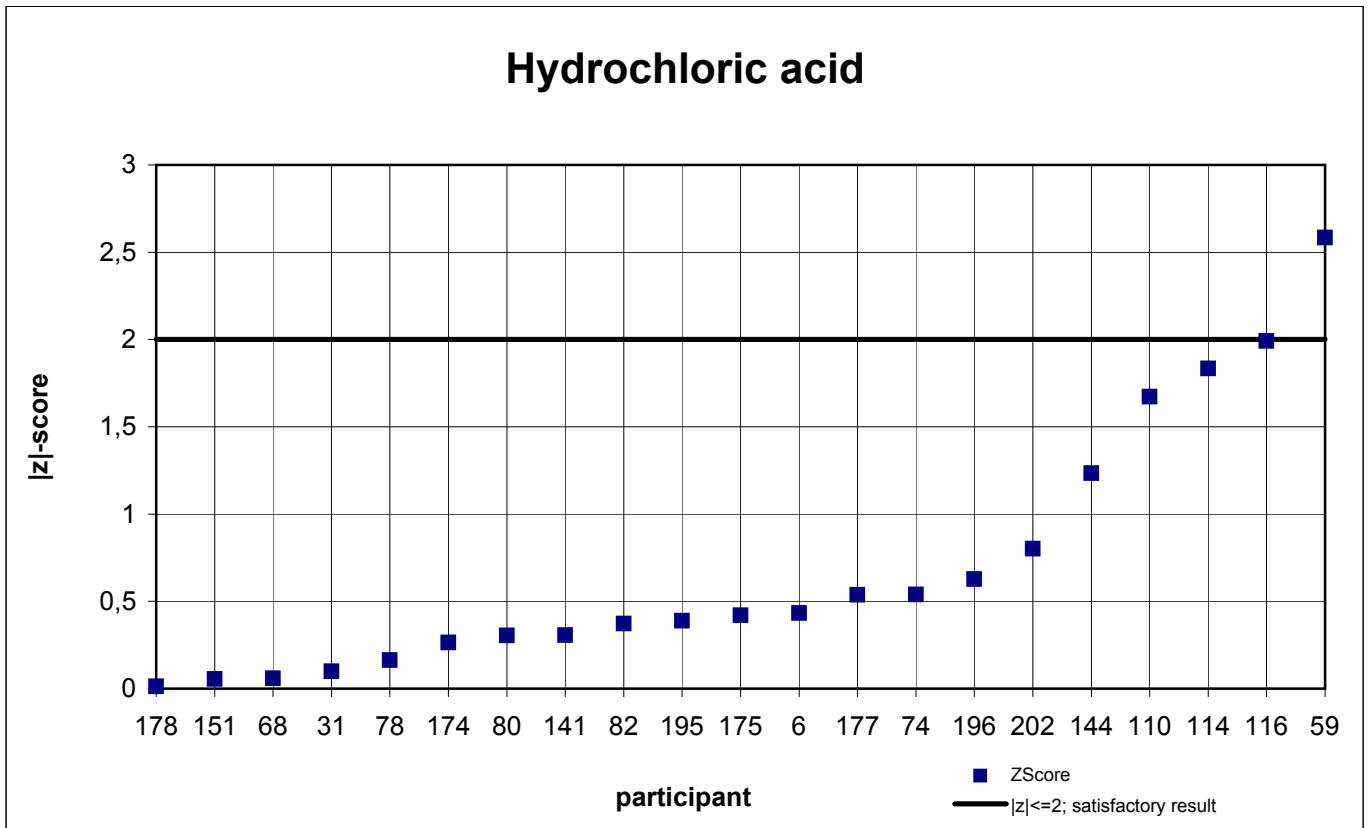
results sample 3



results filter 3



|z|-scores sample 3



|z|-scores filter 3

