

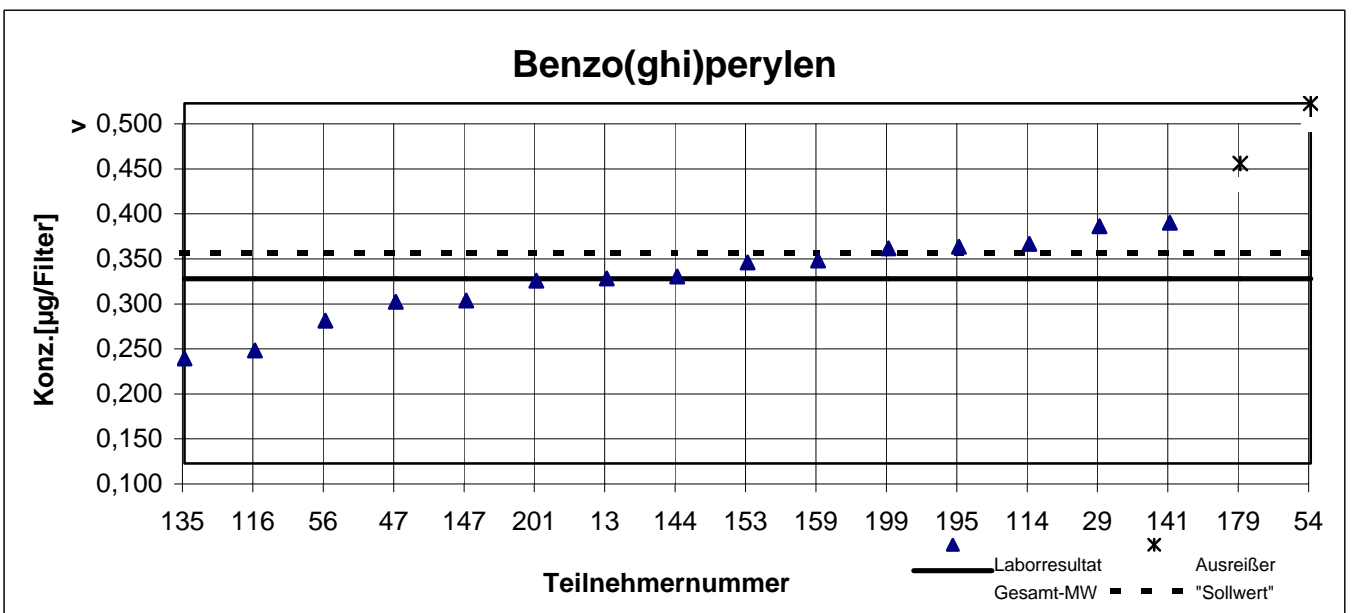
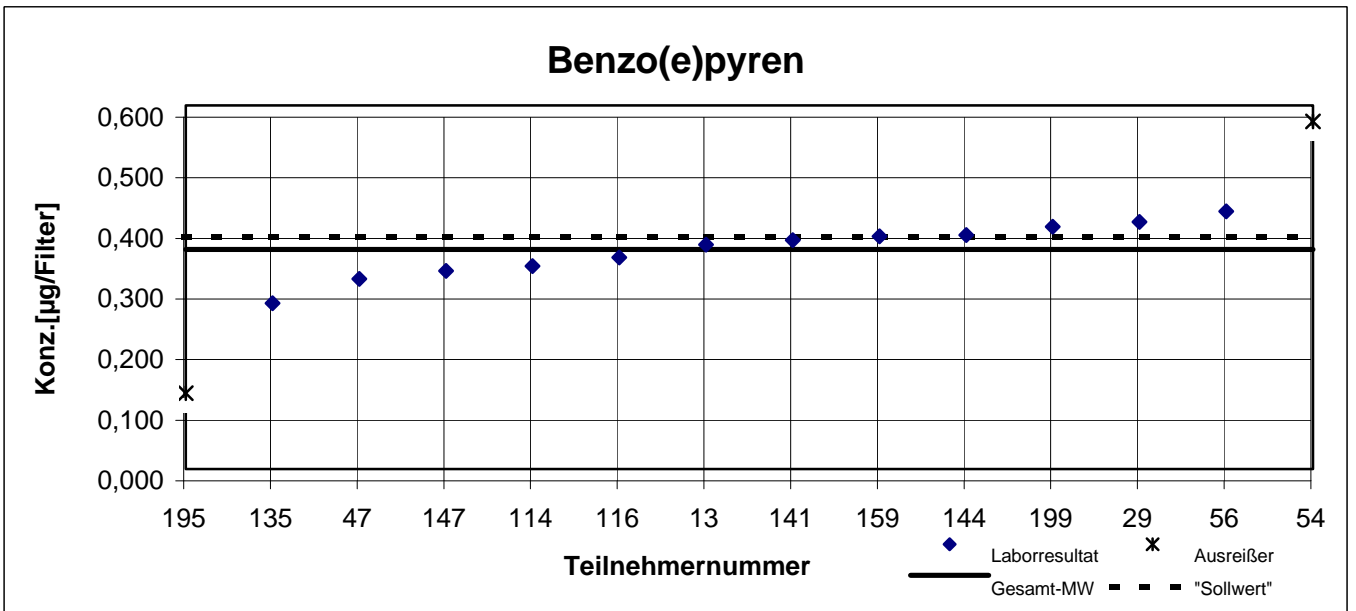
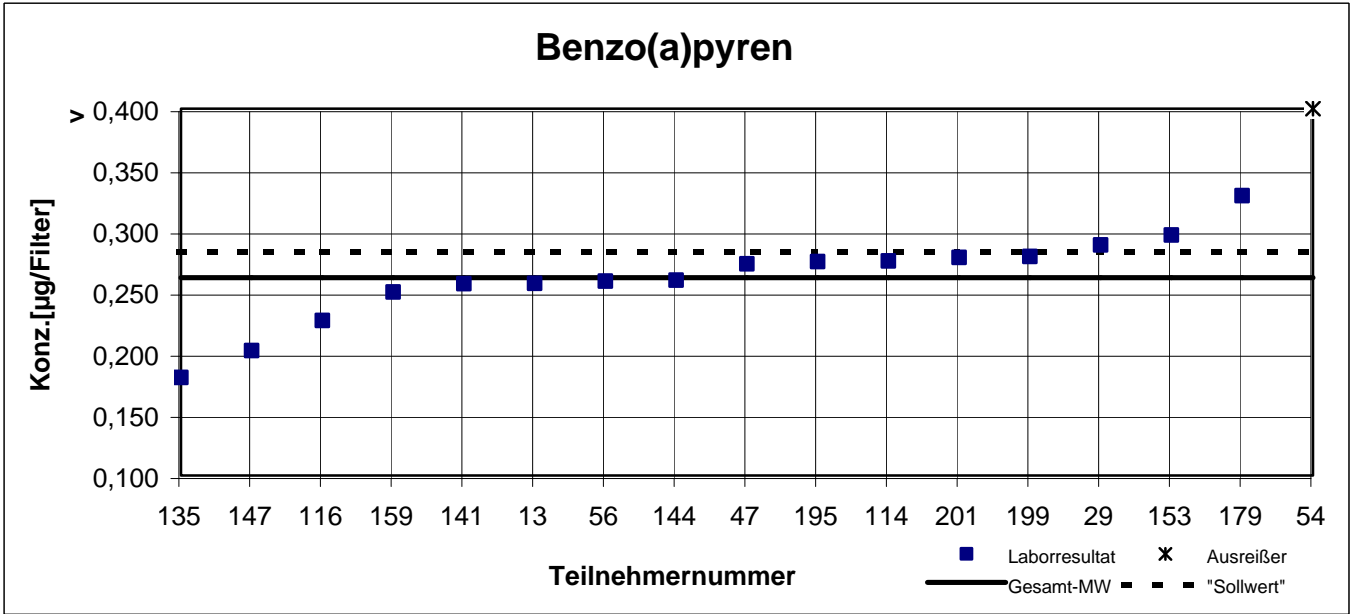
results filter 1

participant number	benzo[a]pyrene		benzo[e]pyrene		benzo[ghi]perylene		benzo[k]fluoranthene		indeno[1,2,3-cd]pyrene	
	result	z - score	result	z - score	result	z - score	result	z - score	result	z - score
13	0,257	0,2	0,370	0,2	0,306	0,0	0,308	0,1	0,331	0,5
29	0,289	1,0	0,408	1,3	0,364	1,9	0,315	0,3	0,357	1,3
47	0,273	0,4	0,314	1,3	0,280	0,8	0,319	0,5	0,290	0,8
54	0,507	9,4	0,573	5,8	0,550	8,0	0,347	2,1	0,457	4,5
56	0,259	0,1	0,425	1,7	0,259	1,5	0,312	0,1	0,286	0,9
114	0,275	0,5	0,335	0,8	0,344	1,3	0,319	0,5	0,352	1,2
116	0,227	1,3	0,349	0,4	0,226	2,6	0,304	0,4	0,241	2,3
135	0,180	3,1	0,273	2,5	0,217	2,9	0,207	5,9	0,200	3,7
141	0,257	0,2	0,377	0,4	0,367	2,0	0,310	0,0	0,344	0,9
144	0,260	0,1	0,386	0,7	0,308	0,1	0,303	0,4	0,311	0,1
147	0,202	2,3	0,327	1,0	0,281	0,8	0,285	1,5	0,307	0,2
153	0,297	1,3	k.A.	k.A.	0,323	0,6	0,280	1,7	0,333	0,6
159	0,251	0,4	0,384	0,6	0,325	0,7	0,287	1,3	0,312	0,1
179	0,329	2,6	k.A.	k.A.	0,433	4,2	0,092	12,4	0,611	9,4
195	0,275	0,5	0,125	6,6	0,341	1,2	0,334	1,3	0,281	1,1
199	0,279	0,7	0,400	1,0	0,339	1,1	0,317	0,4	0,317	0,1
201	0,278	0,6	k.A.	k.A.	0,303	0,1	0,317	0,4	0,351	1,1

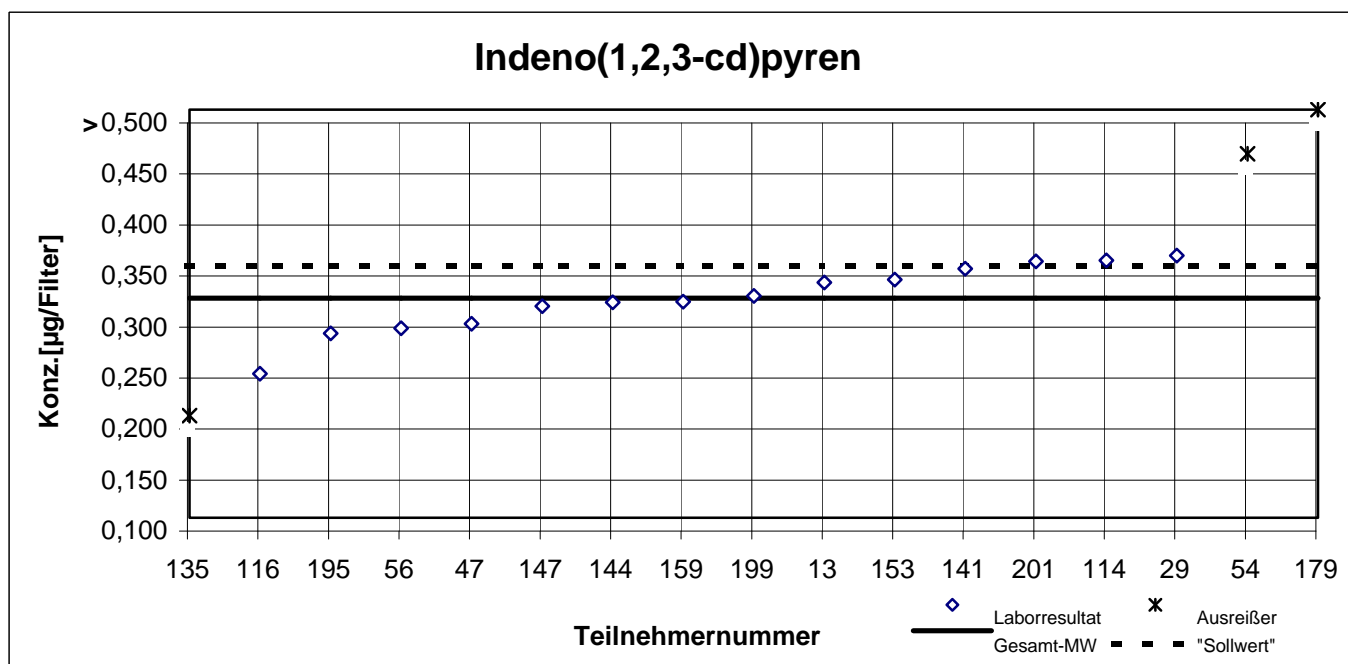
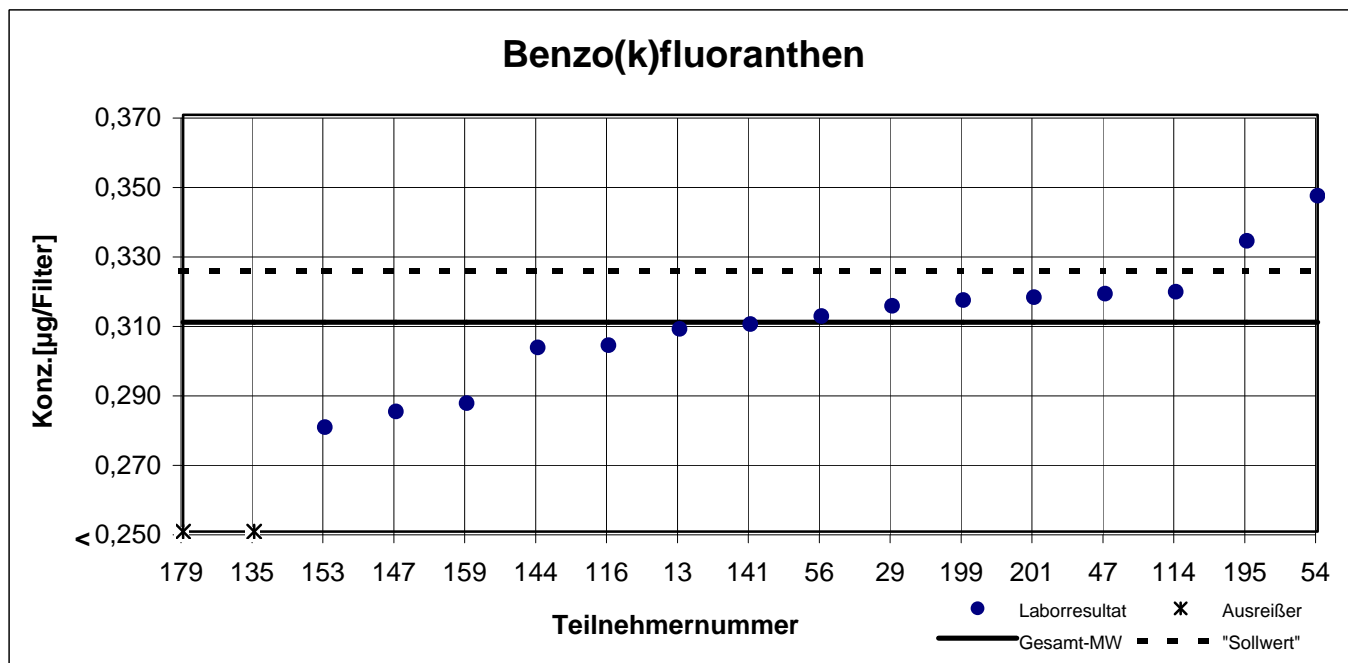
signed fields are outliers

	benzo[a]-pyrene	benzo[e]-pyrene	benzo[ghi]-perylene	benzo[k]-fluoranthene	indeno[1,2,3-cd]pyrene
mean value c_k [μg / sample]	0,262	0,362	0,305	0,310	0,315
standard deviation S_k [μg / sample]	0,0356	0,0439	0,0458	0,0176	0,0329
relative standard deviation [%]	13,64	12,13	15,03	5,68	10,44

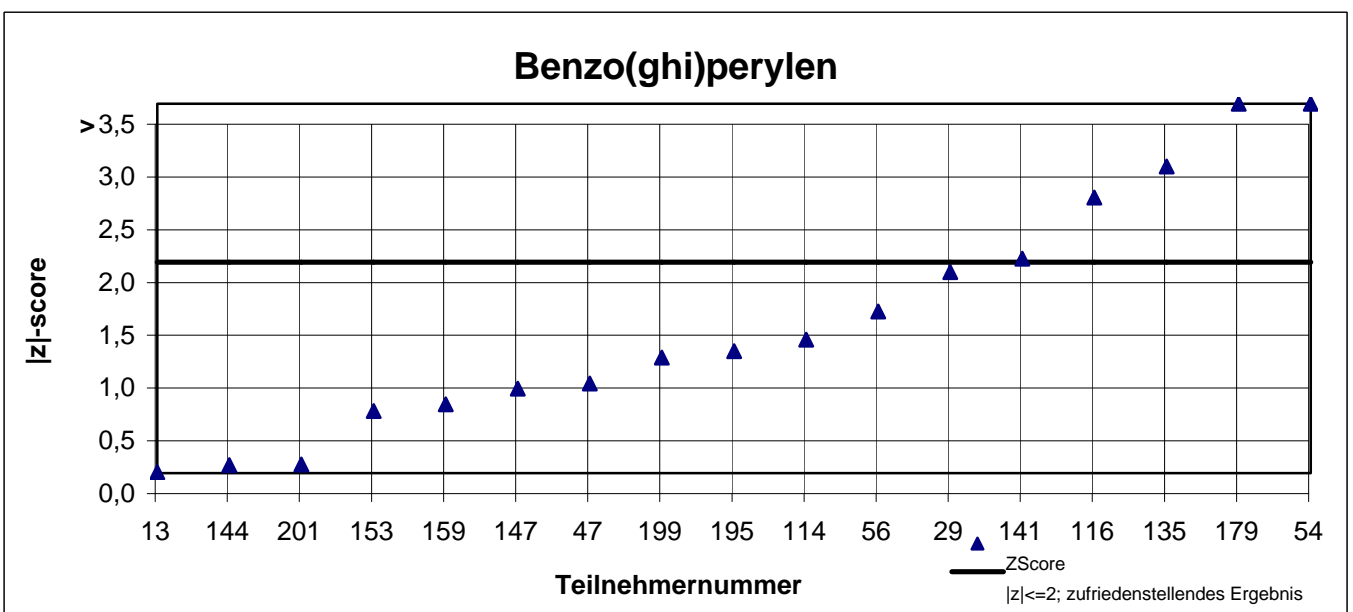
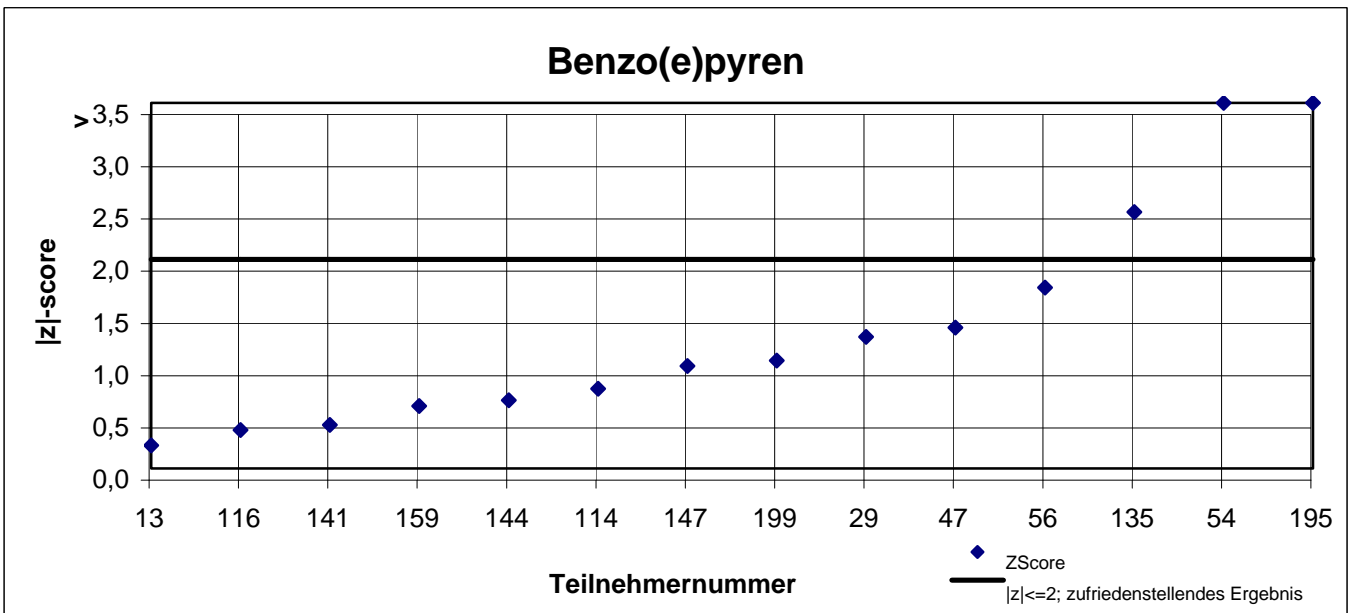
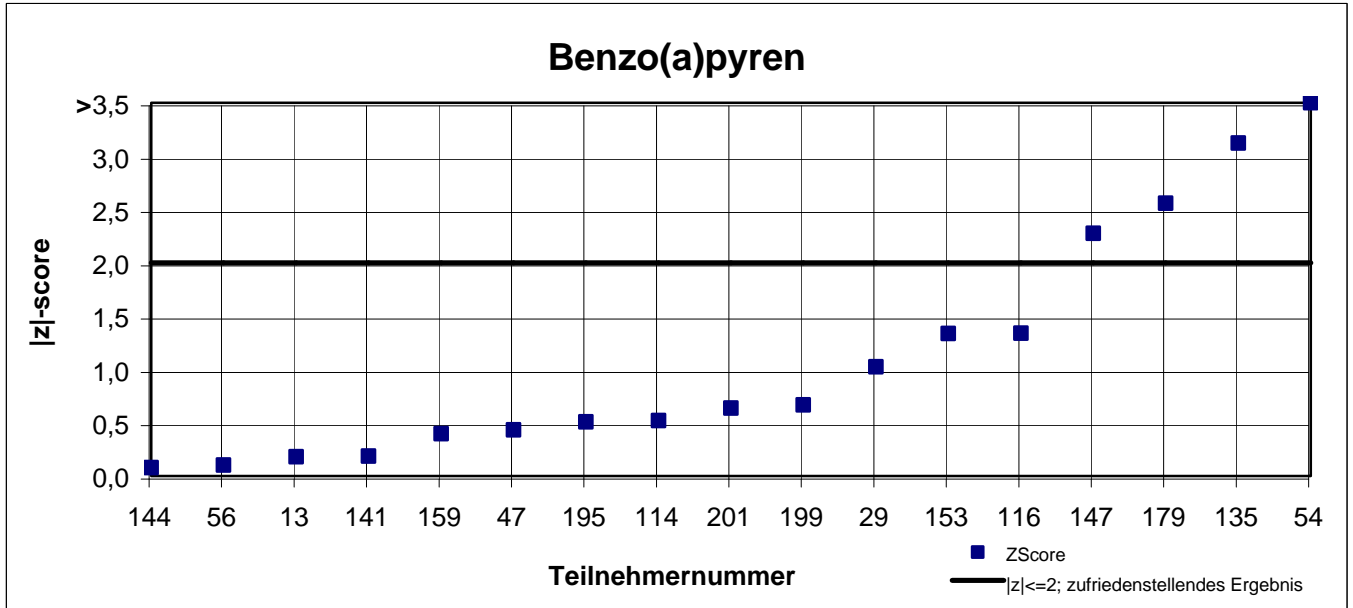
Laborresultate Filter 1



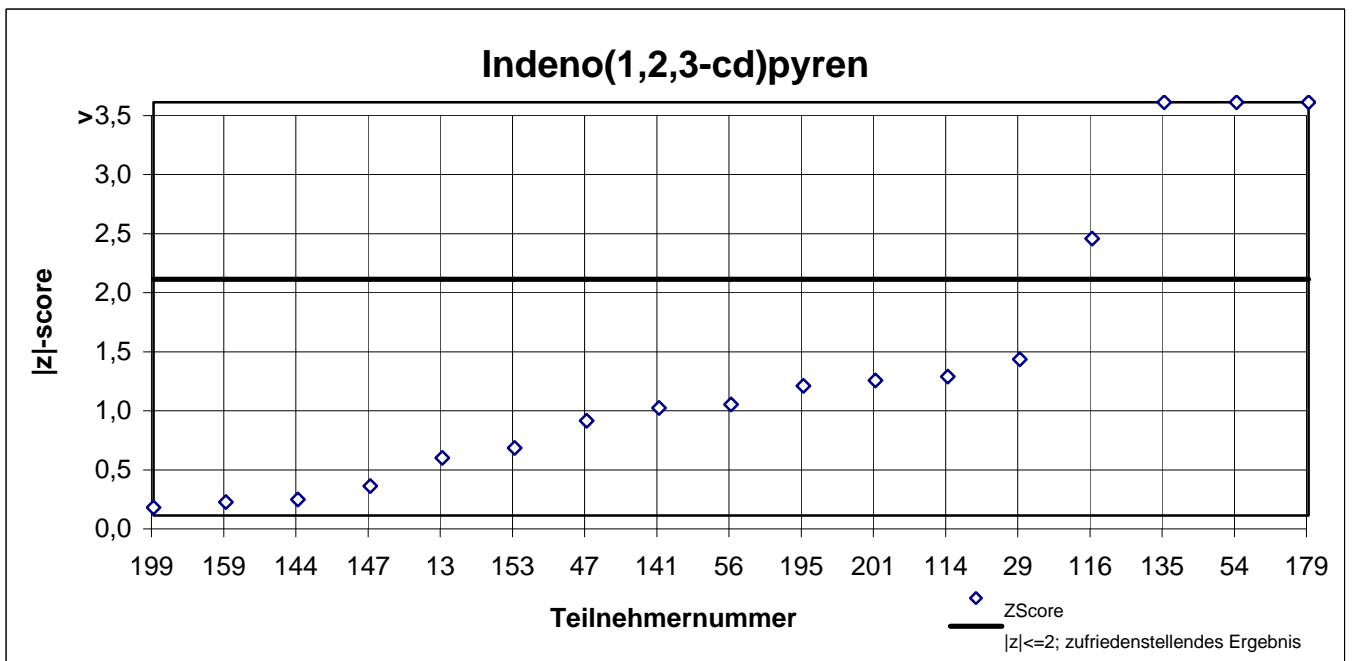
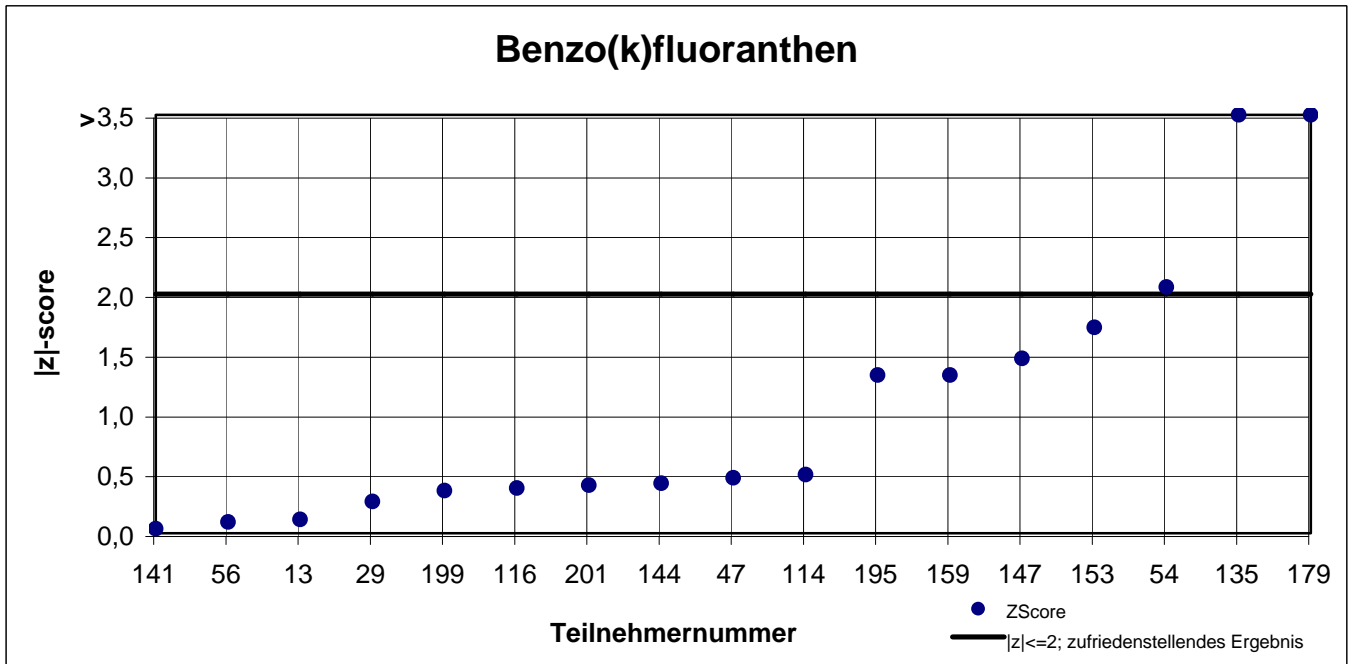
Laborresultate Filter 1



z-scores Filter 1



z-scores Filter 1



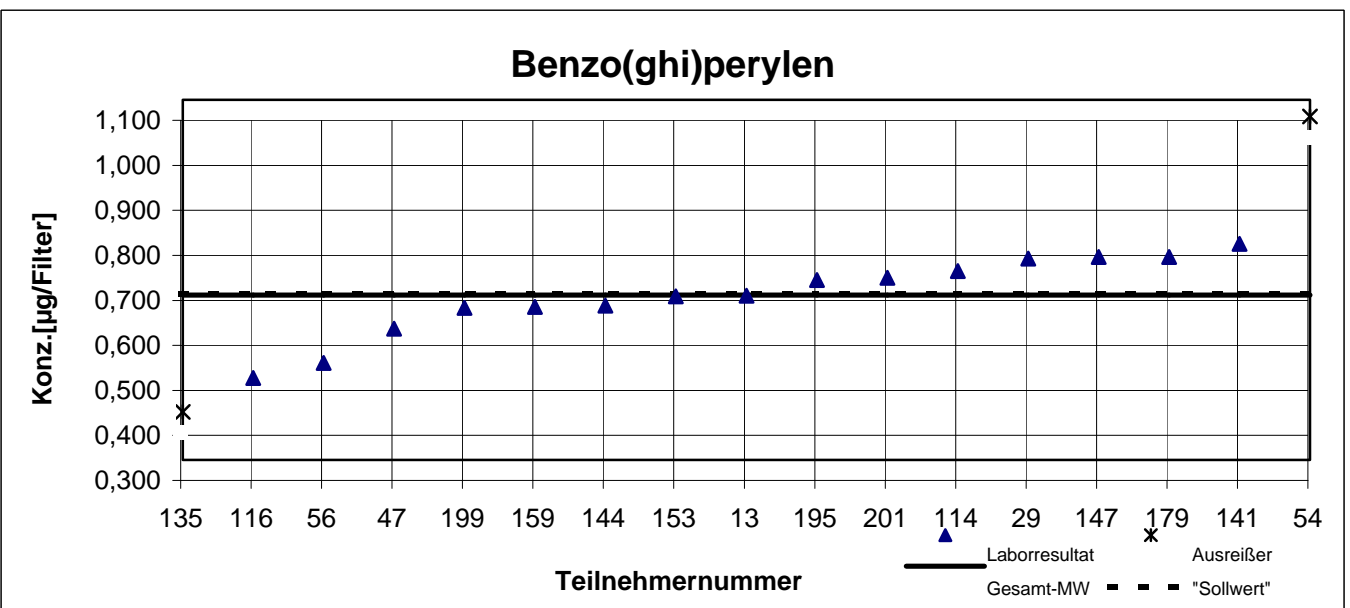
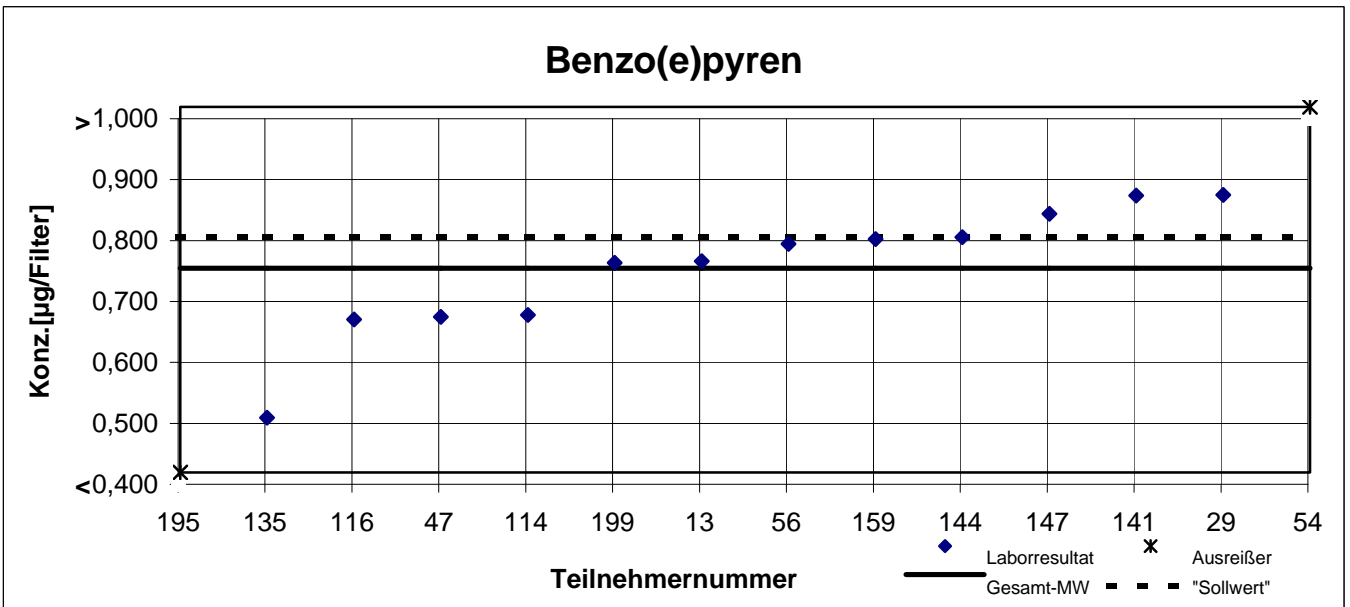
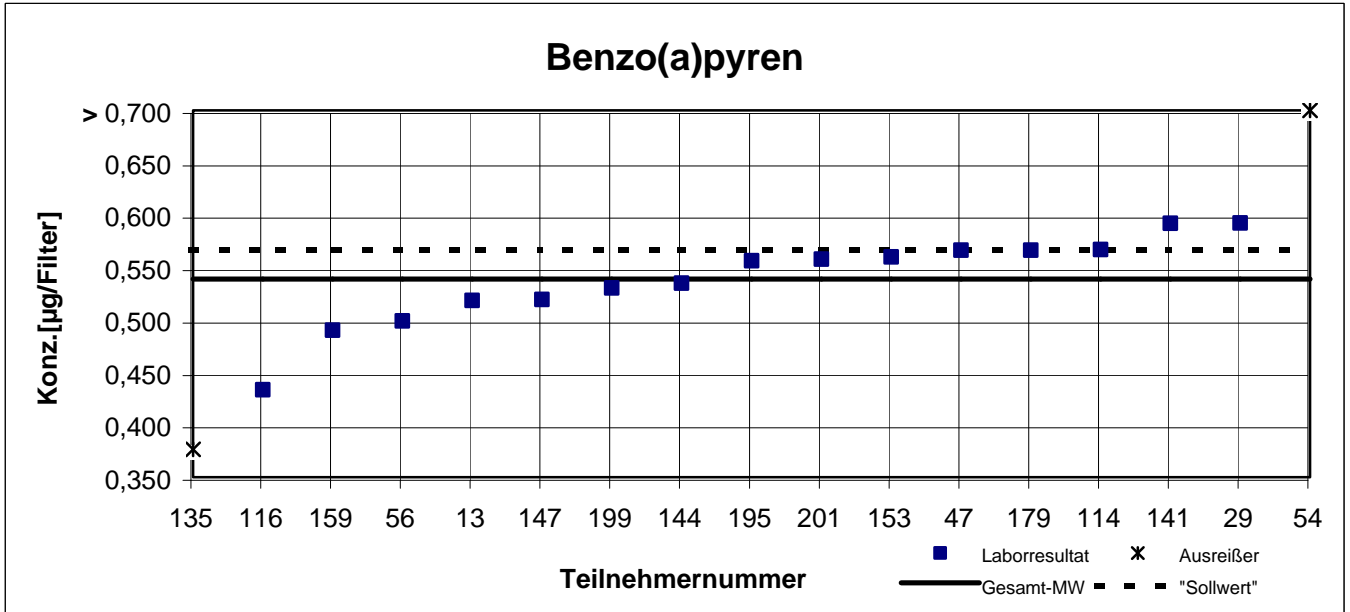
results filter 2

participant number	benzo[a]pyrene		benzo[b]fluoranthene		benzo[e]pyrene		benzo[ghi]perylene		indeno[1,2,3-cd]pyrene	
	result	z - score	result	z - score	result	z - score	result	z - score	result	z - score
13	0,519	0,5	0,747	0,2	0,665	0,0	0,613	0,4	0,685	0,1
29	0,593	1,3	0,856	1,6	0,747	1,2	0,657	0,5	0,726	0,7
47	0,567	0,6	0,656	1,1	0,592	1,1	0,664	0,6	0,620	0,9
54	1,133	14,0	1,270	7,3	1,063	6,0	0,727	2,0	1,050	5,5
56	0,499	0,9	0,775	0,5	0,516	2,3	0,590	1,0	0,583	1,4
114	0,567	0,7	0,659	1,0	0,719	0,8	0,667	0,7	0,738	0,9
116	0,433	2,5	0,651	1,1	0,482	2,8	0,560	1,6	0,432	3,6
135	0,377	3,8	0,490	3,3	0,407	3,9	0,430	4,4	0,377	4,4
141	0,592	1,3	0,854	1,6	0,780	1,7	0,669	0,8	0,752	1,1
144	0,535	0,1	0,786	0,7	0,643	0,4	0,618	0,3	0,652	0,4
147	0,519	0,5	0,825	1,2	0,751	1,3	0,682	1,0	0,725	0,7
153	0,560	0,5	k.A.	k.A.	0,663	0,0	0,570	1,4	0,683	0,1
159	0,490	1,1	0,783	0,6	0,640	0,4	0,585	1,1	0,644	0,5
179	0,567	0,7	k.A.	k.A.	0,751	1,3	0,626	0,2	1,258	8,6
195	0,556	0,4	0,247	6,6	0,700	0,5	0,674	0,9	0,667	0,2
199	0,530	0,2	0,744	0,1	0,638	0,4	0,597	0,8	0,626	0,8
201	0,558	0,4	k.A.	k.A.	0,704	0,6	0,644	0,2	0,709	0,5

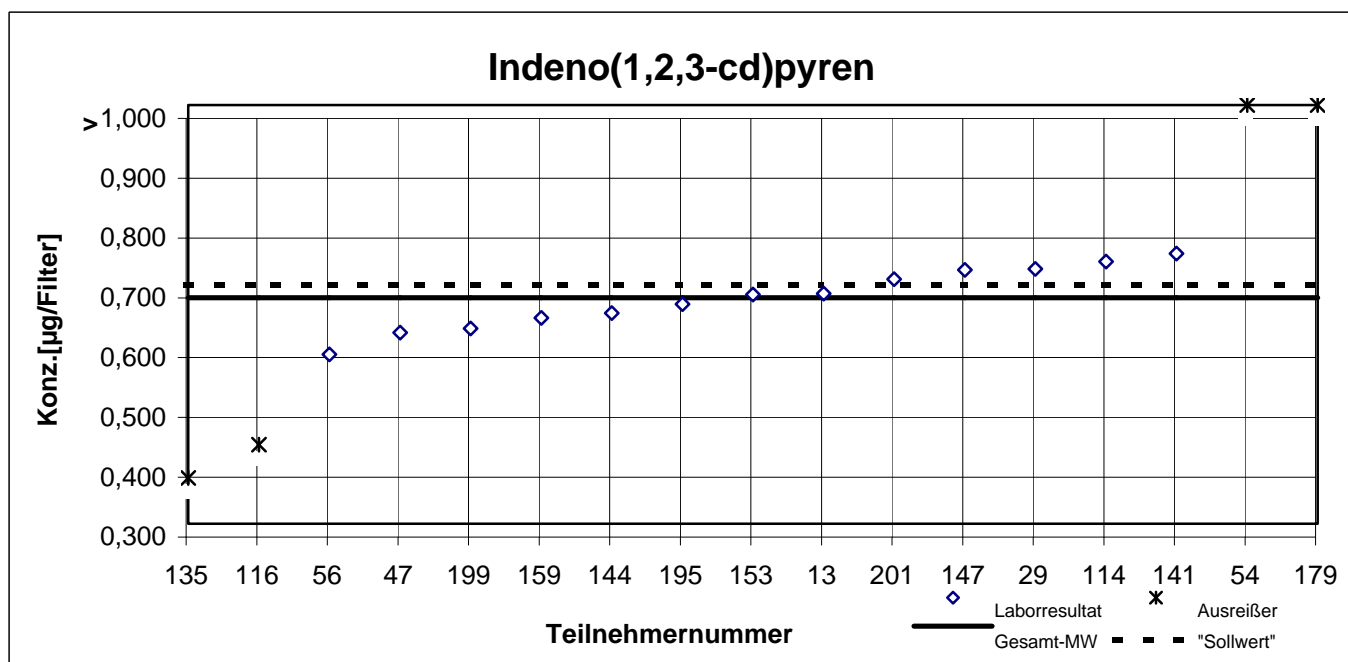
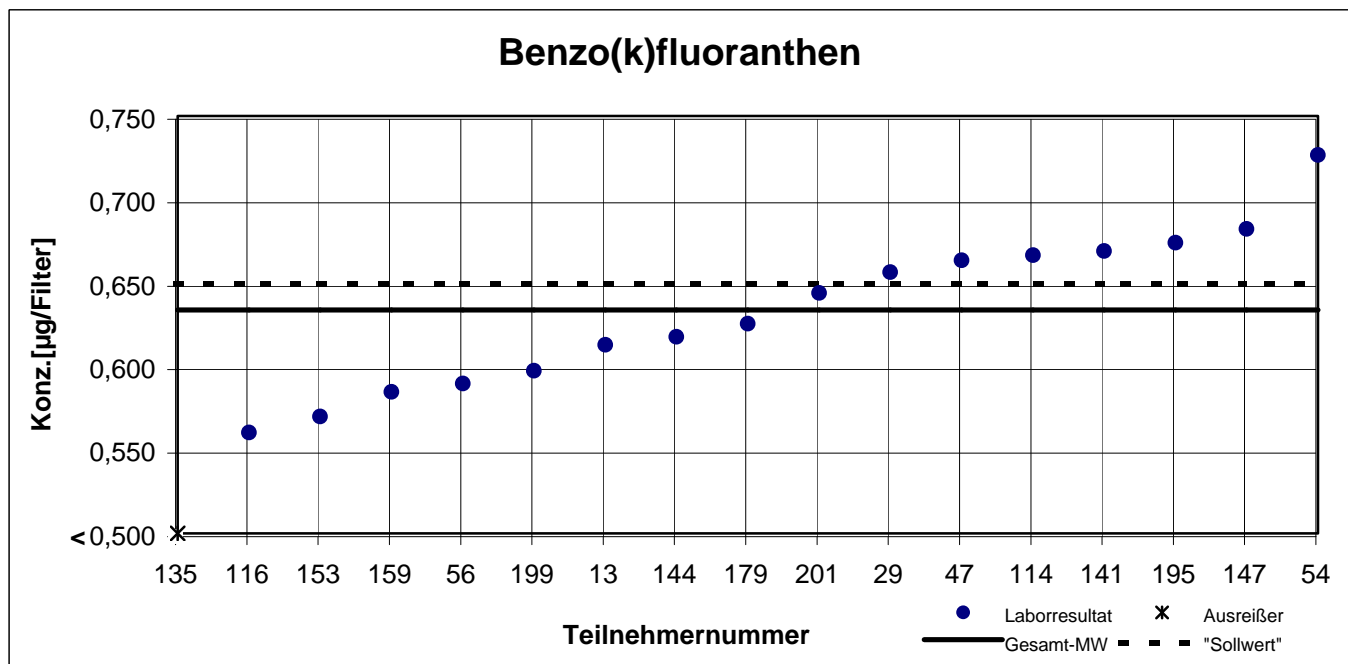
signed fields are outliers

	benzo[a]-pyrene	benzo[e]-pyrene	benzo[ghi]-perylene	benzo[k]-fluoranthene	indeno[1,2,3-cd]pyrene
mean value c_k [µg / sample]	0,539	0,735	0,666	0,634	0,678
standard deviation S_k [µg / sample]	0,0423	0,1056	0,0859	0,0464	0,0513
relative standard deviation [%]	7,86	14,37	12,91	7,33	7,58

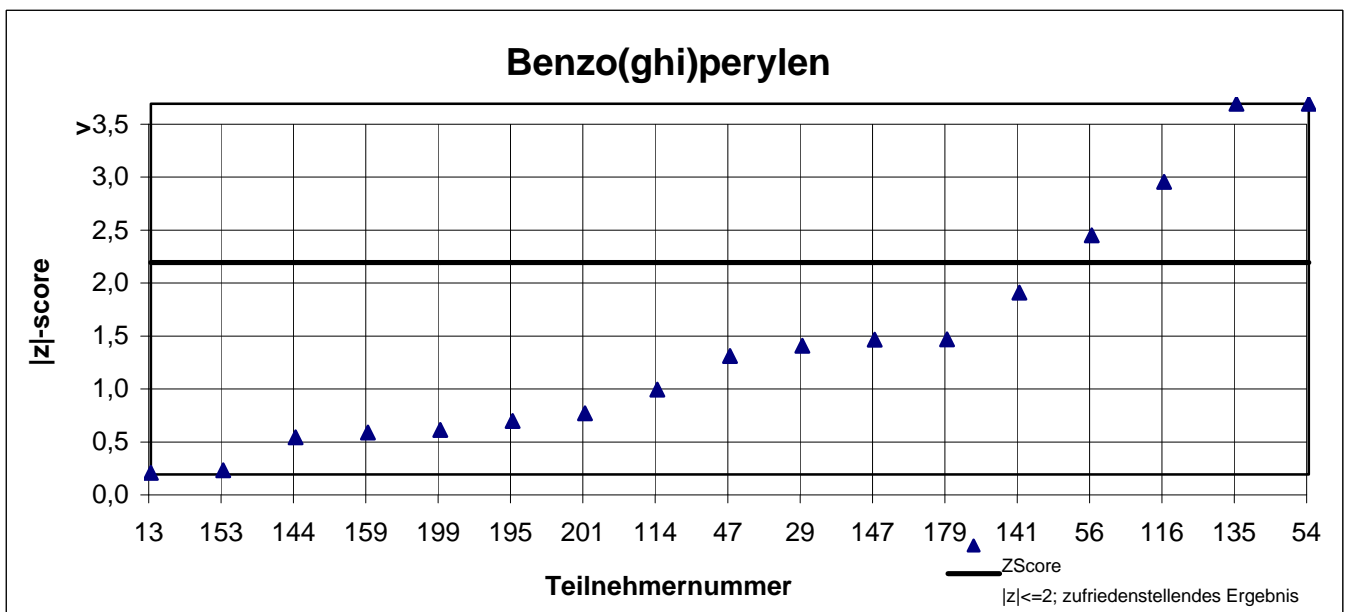
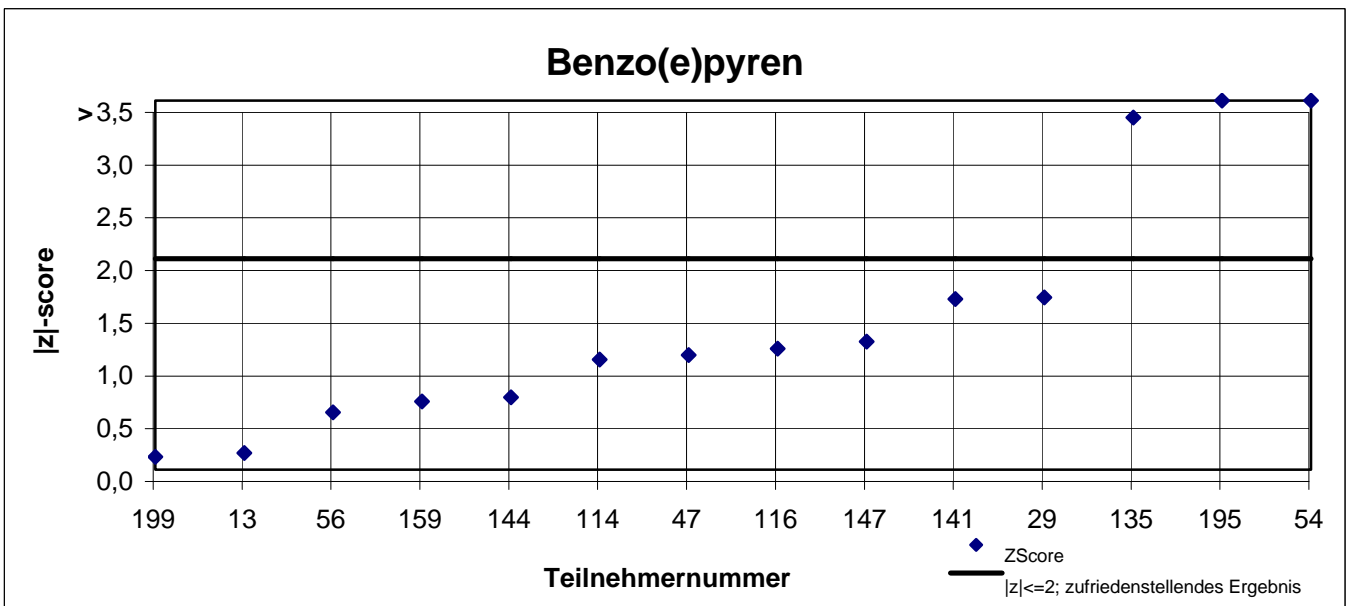
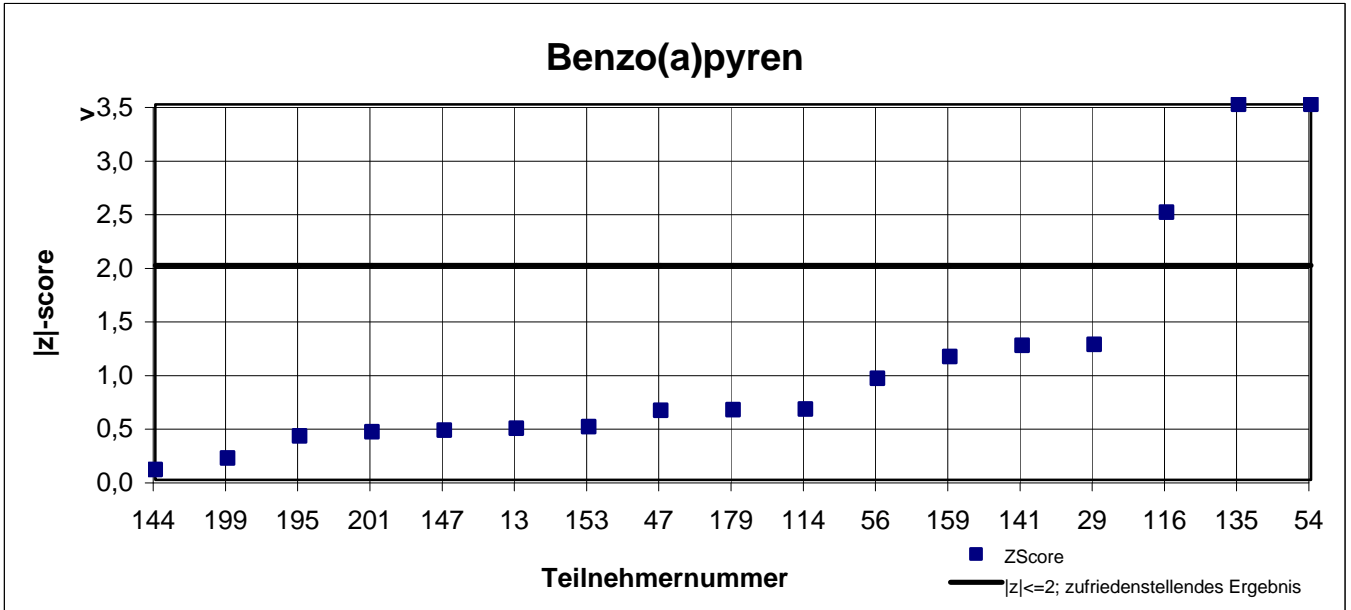
Laborresultate Filter 2



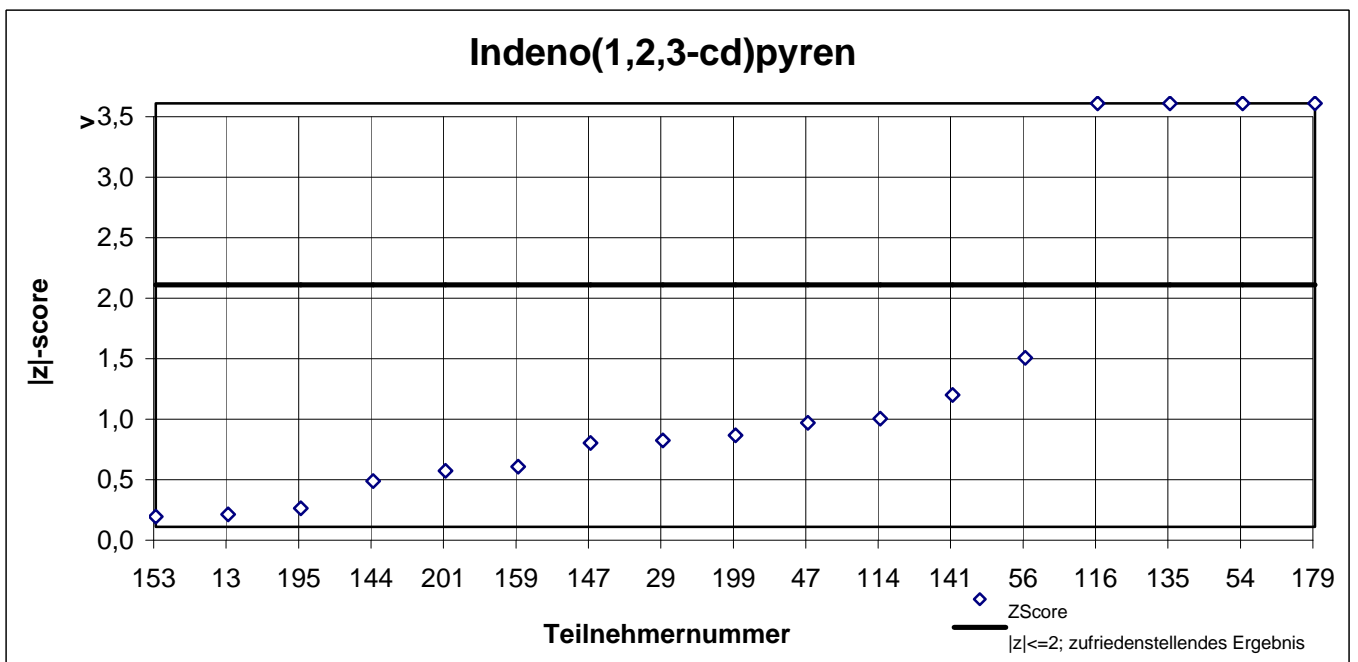
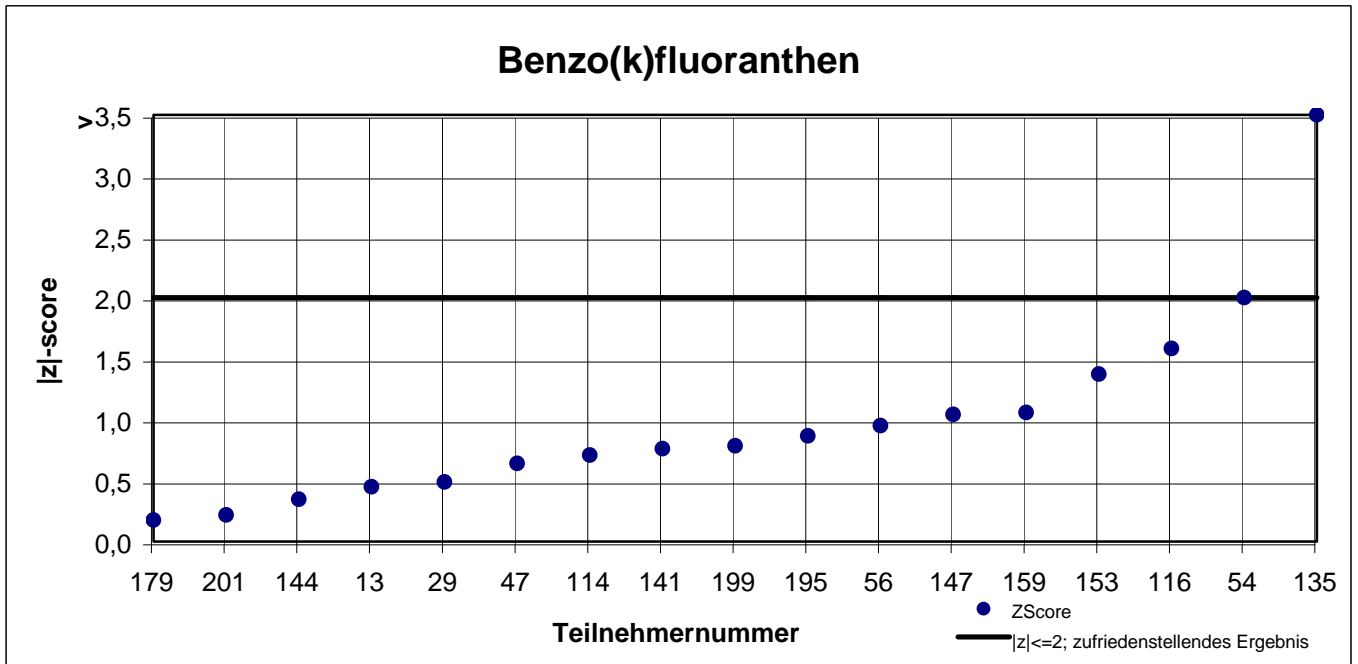
Laborresultate Filter 2



z-scores Filter 2



z-scores Filter 2



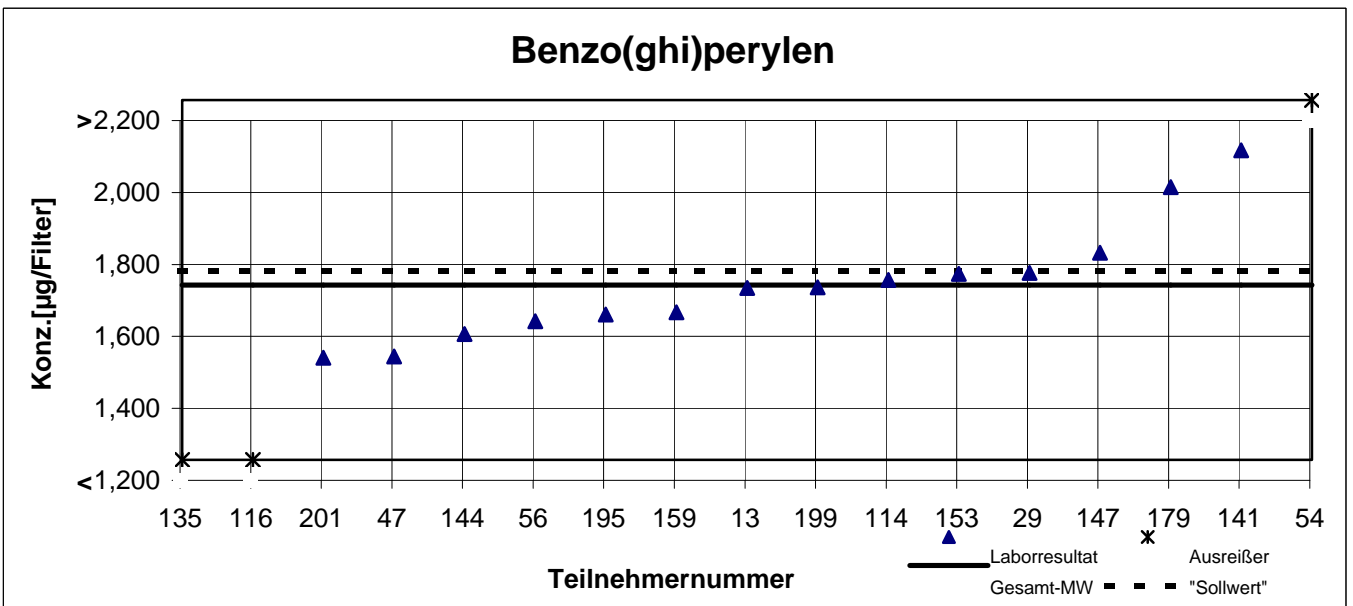
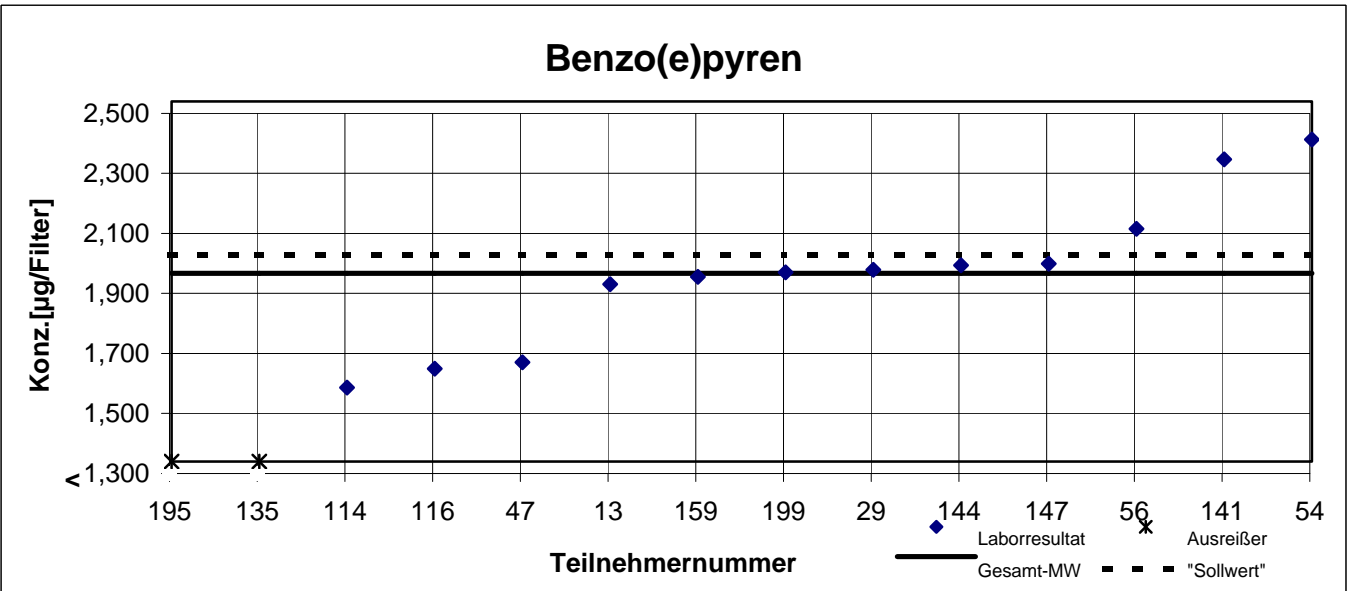
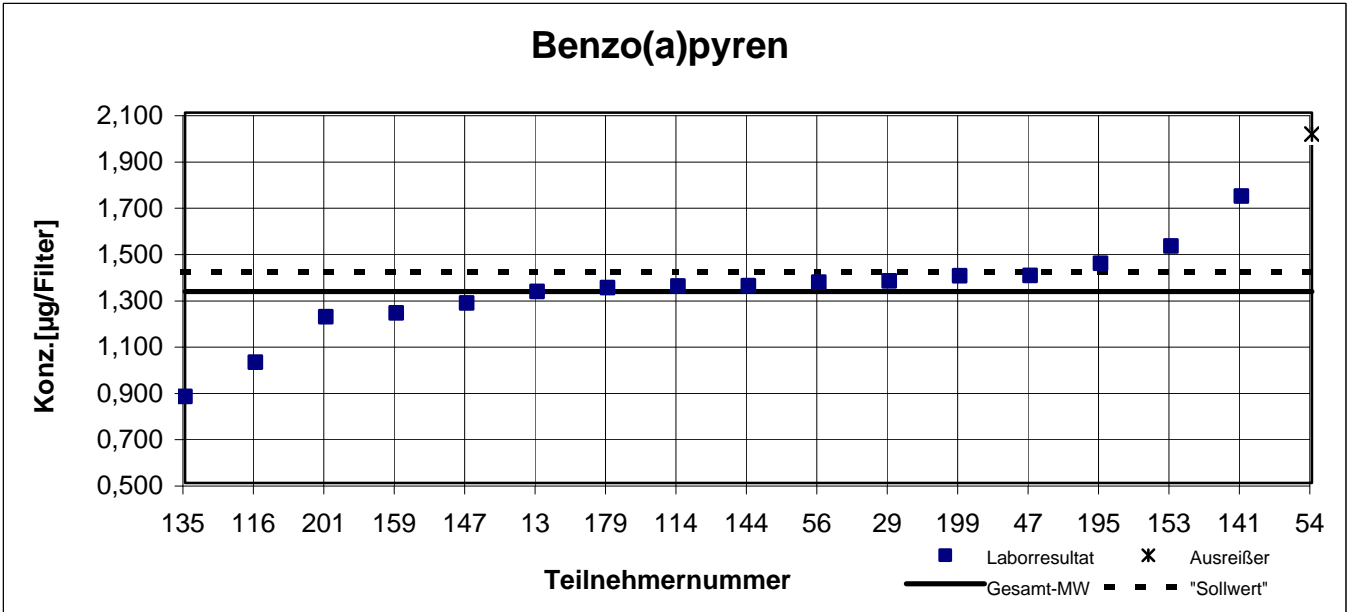
results filter 3

participant number	benzo[a]pyrene		benzo[b]fluoranthene		benzo[e]pyrene		benzo[ghi]perylene		indeno[1,2,3-cd]pyrene	
	result	z - score	result	z - score	result	z - score	result	z - score	result	z - score
13	1,327	0,0	1,891	0,2	1,678	0,1	1,511	0,4	1,681	0,1
29	1,373	0,3	1,939	0,1	1,720	0,2	1,488	0,6	1,659	0,1
47	1,397	0,5	1,631	1,5	1,487	1,2	1,614	0,2	1,611	0,4
54	2,007	5,1	2,373	2,3	2,710	6,1	1,947	2,3	3,033	8,1
56	1,368	0,3	2,075	0,8	1,585	0,6	1,581	0,0	1,633	0,2
114	1,350	0,2	1,547	2,0	1,700	0,1	1,573	0,0	1,760	0,5
116	1,021	2,3	1,609	1,7	0,986	4,2	1,374	1,3	1,004	4,0
135	0,873	3,4	1,067	4,5	0,983	4,2	0,990	3,7	0,900	4,6
141	1,739	3,1	2,307	2,0	2,061	2,2	1,786	1,3	1,998	2,0
144	1,352	0,2	1,954	0,1	1,550	0,8	1,538	0,2	1,668	0,0
147	1,278	0,4	1,959	0,2	1,776	0,5	1,644	0,4	1,741	0,4
153	1,523	1,5	k.A.	k.A.	1,717	0,2	2,193	3,9	2,987	7,9
159	1,234	0,7	1,916	0,1	1,610	0,5	1,441	0,9	1,562	0,7
179	1,344	0,1	k.A.	k.A.	1,958	1,6	1,517	0,4	2,816	6,8
195	1,448	0,9	0,643	6,7	1,604	0,5	1,743	1,1	1,760	0,5
199	1,395	0,5	1,930	0,0	1,680	0,0	1,552	0,2	1,631	0,2
201	1,218	0,8	k.A.	k.A.	1,484	1,2	1,345	1,5	1,359	1,9

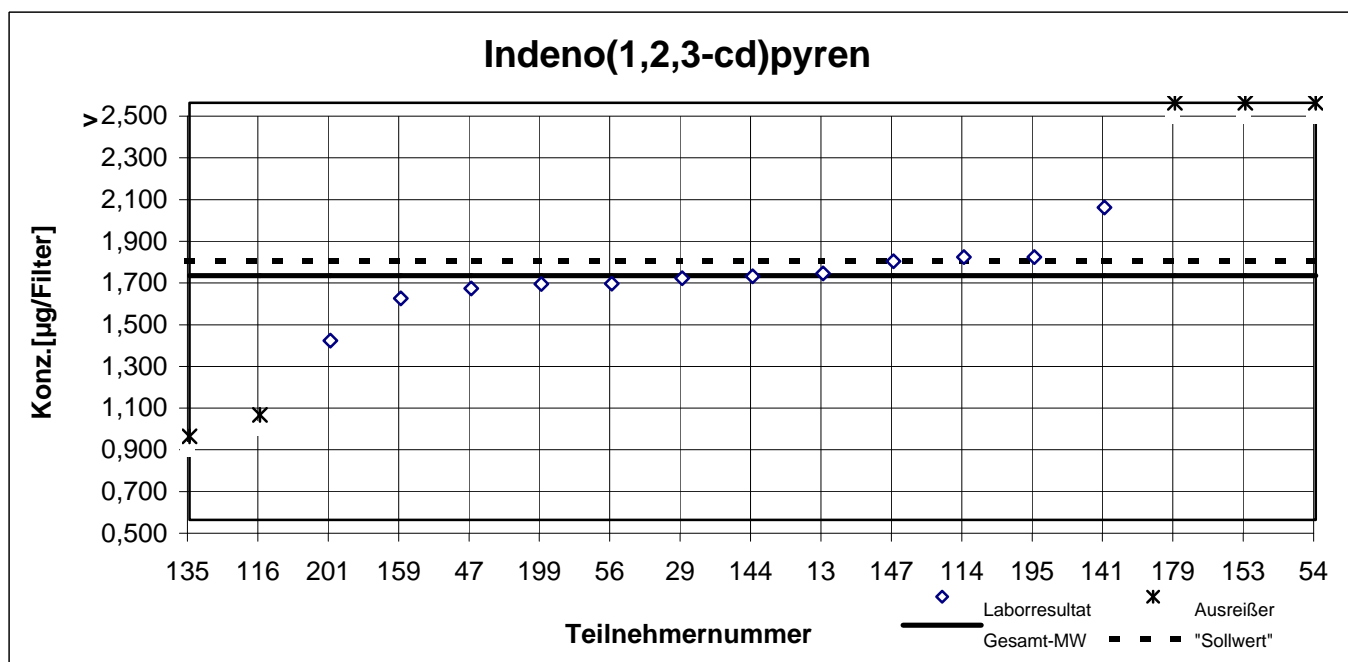
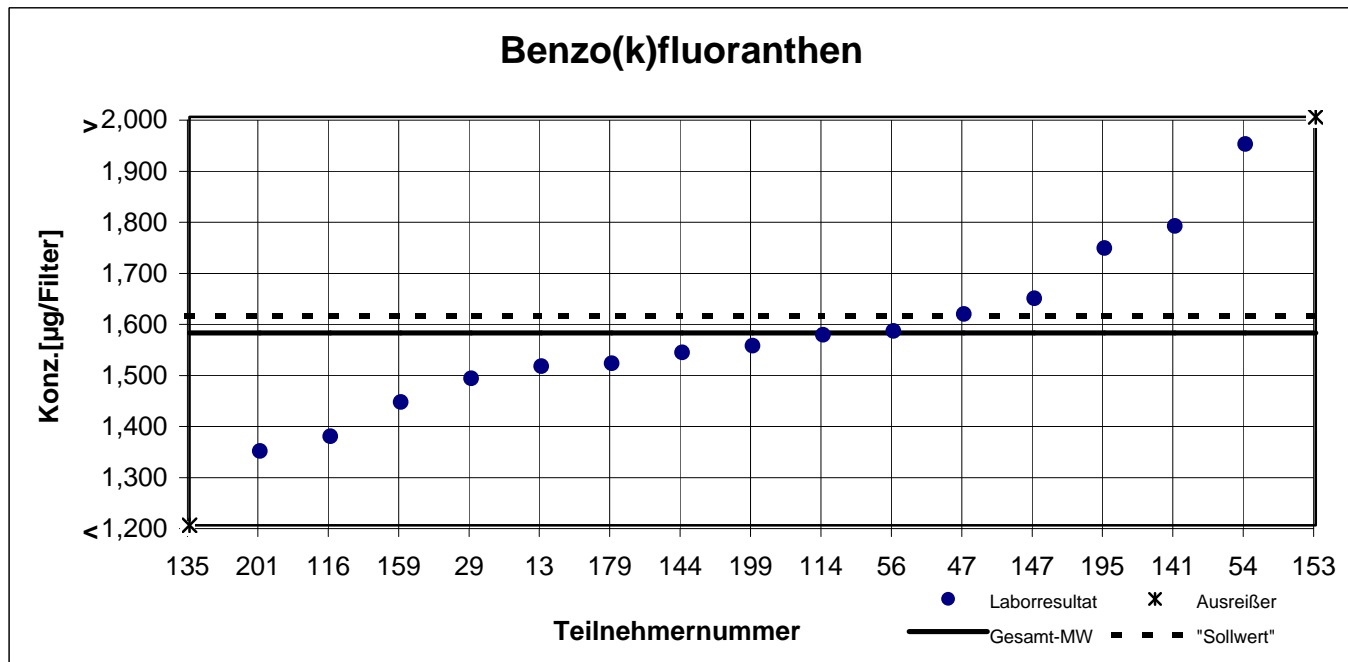
signed fields are outliers

	benzo[a]-pyrene	benzo[e]-pyrene	benzo[ghi]-perylene	benzo[k]-fluoranthene	indeno[1,2,3-cd]pyrene
mean value c_k [μg / sample]	1,327	1,928	1,686	1,577	1,672
standard deviation S_k [μg / sample]	0,1932	0,2526	0,1632	0,1570	0,1488
relative standard deviation [%]	14,56	13,11	9,68	9,96	8,90

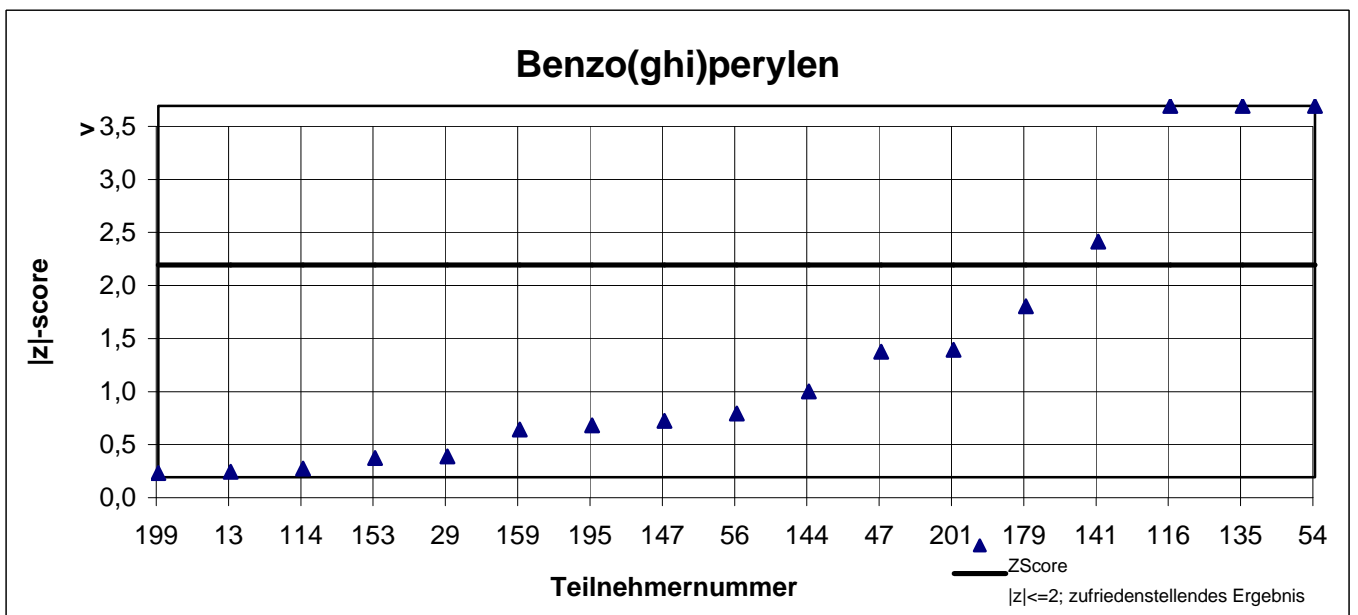
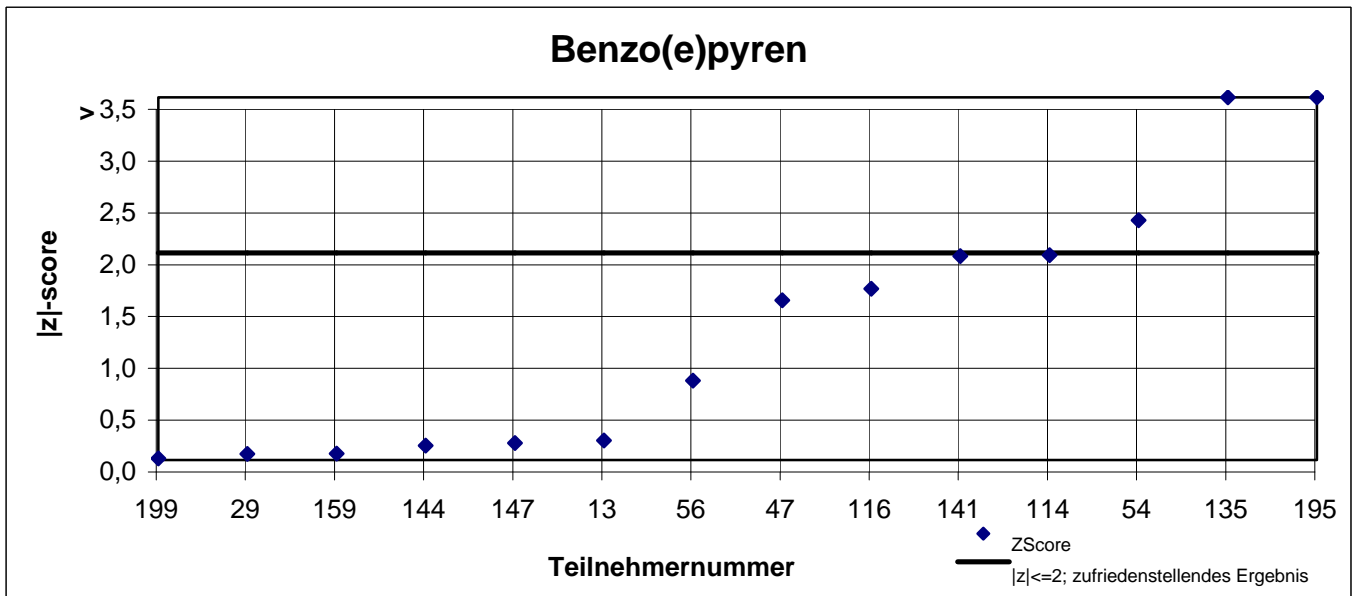
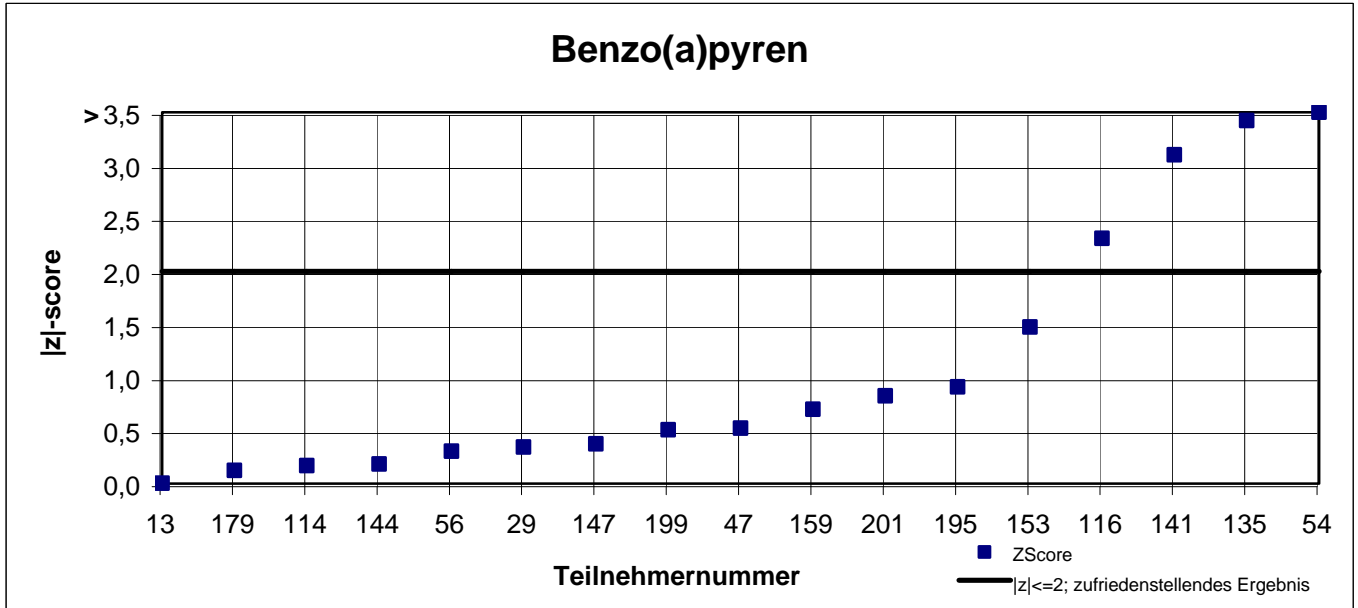
Laborresultate Filter 3



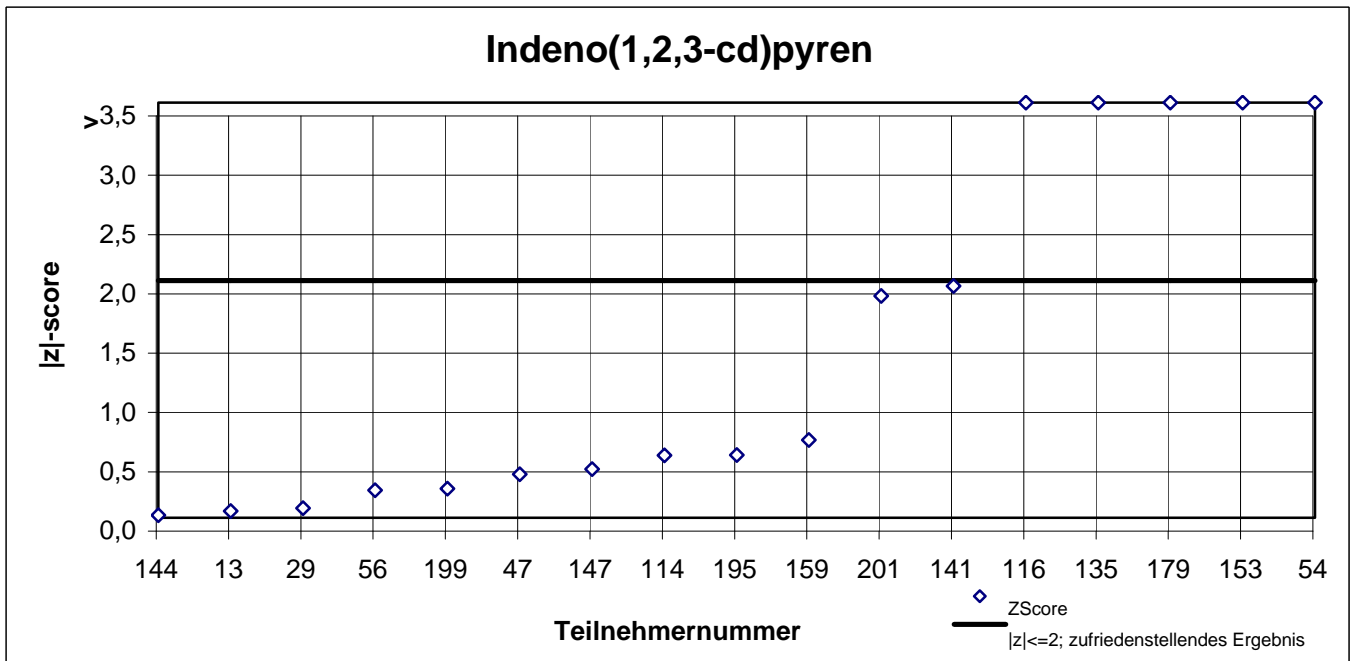
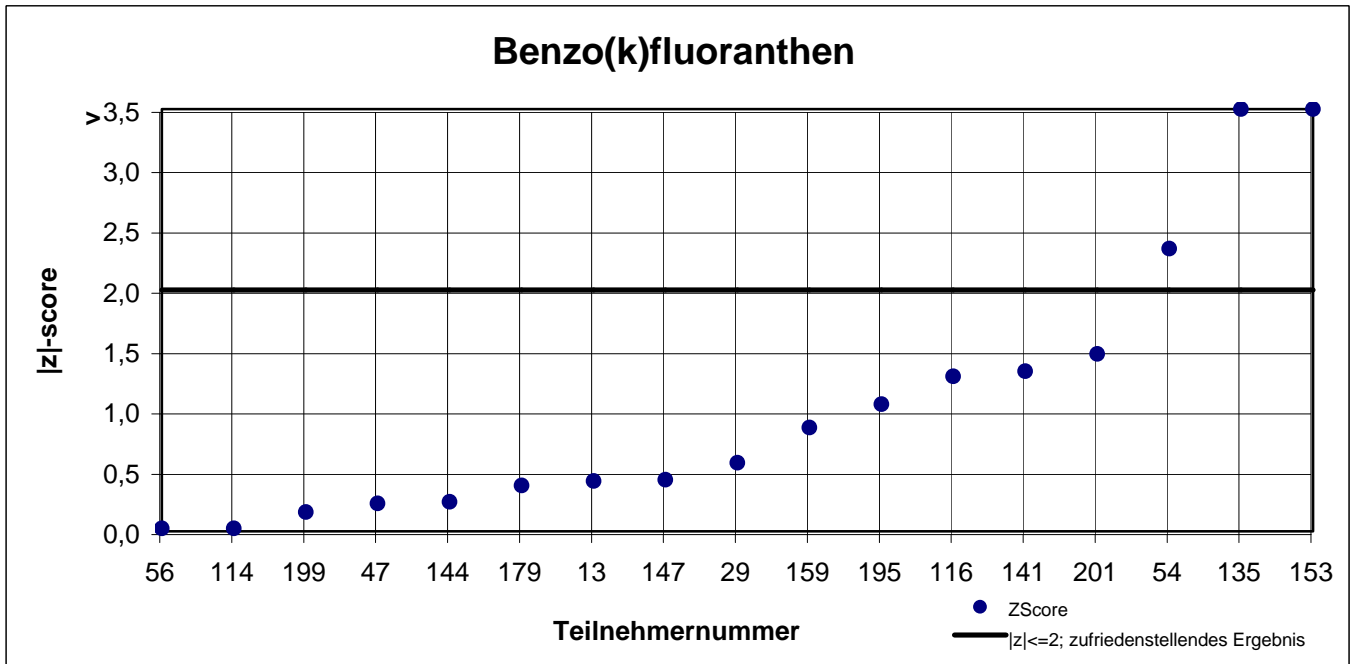
Laborresultate Filter 3



z-scores Filter 3



z-scores Filter 3



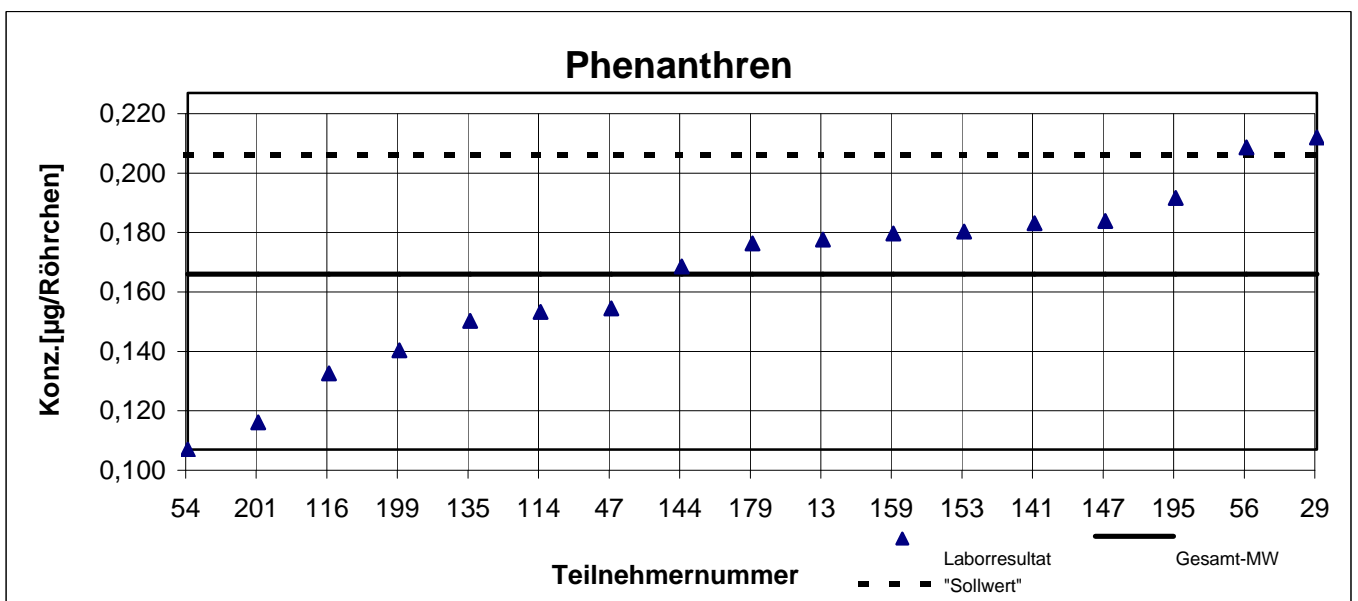
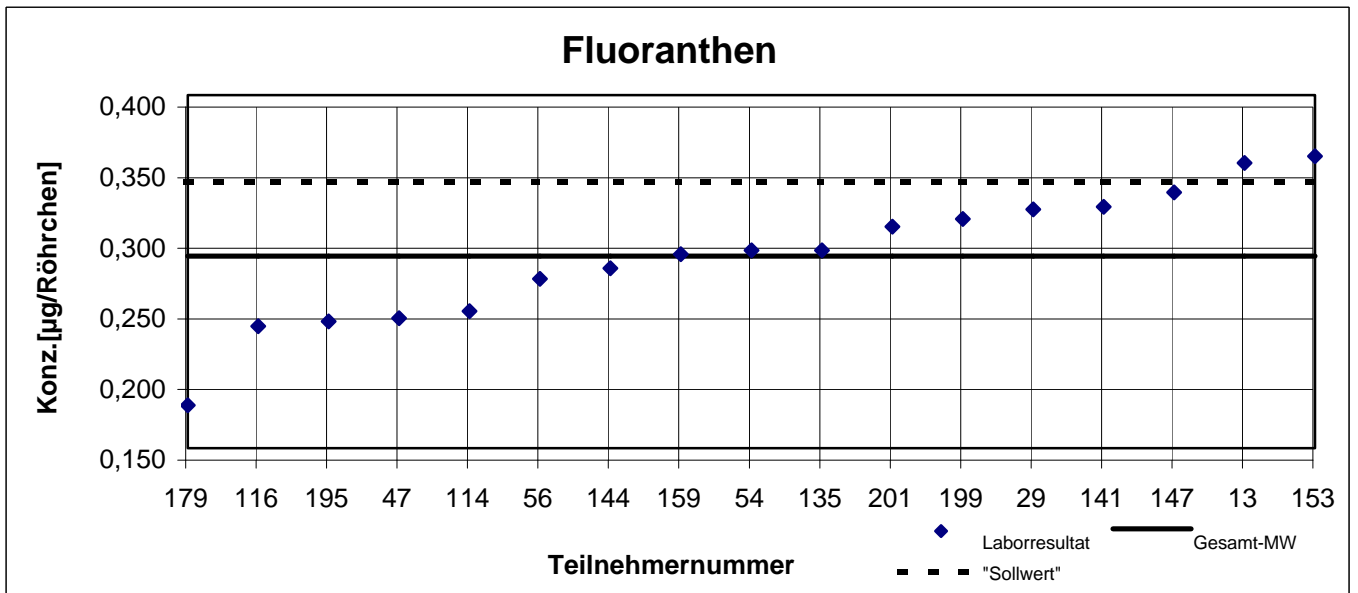
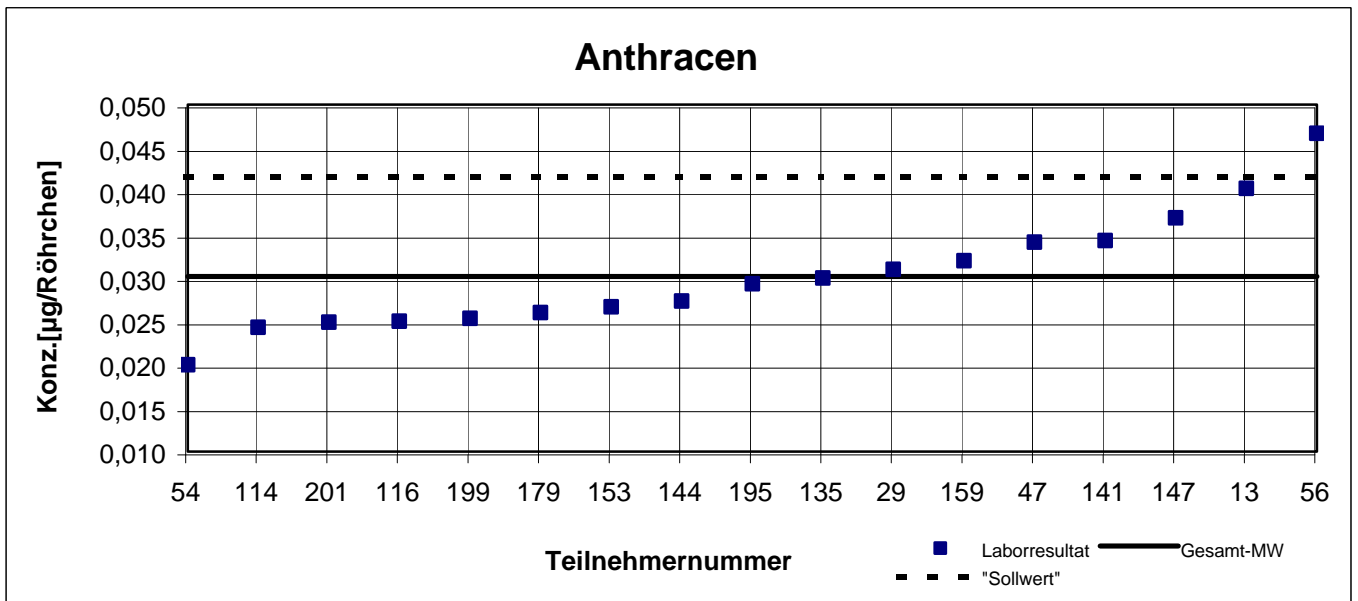
results XAD 1

participant number	anthracene	fluoranthene	phenanthrene
	result	result	result
13	0,0403	0,352	0,171
29	0,0310	0,319	0,205
47	0,0342	0,242	0,148
54	0,0200	0,290	0,100
56	0,0467	0,270	0,202
114	0,0243	0,247	0,146
116	0,0250	0,236	0,126
135	0,0300	0,290	0,143
141	0,0343	0,321	0,176
144	0,0273	0,277	0,162
147	0,0370	0,331	0,177
153	0,0267	0,357	0,173
159	0,0320	0,287	0,173
179	0,0260	0,180	0,169
195	0,0293	0,240	0,185
199	0,0253	0,312	0,133
201	0,0249	0,307	0,109

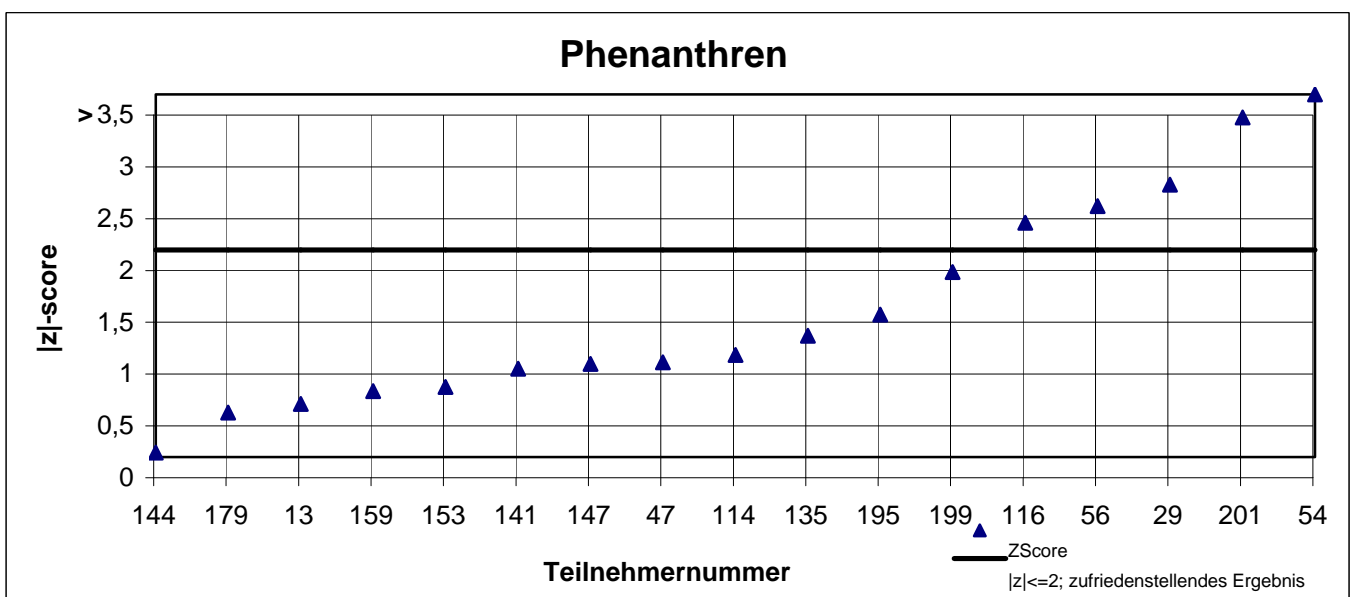
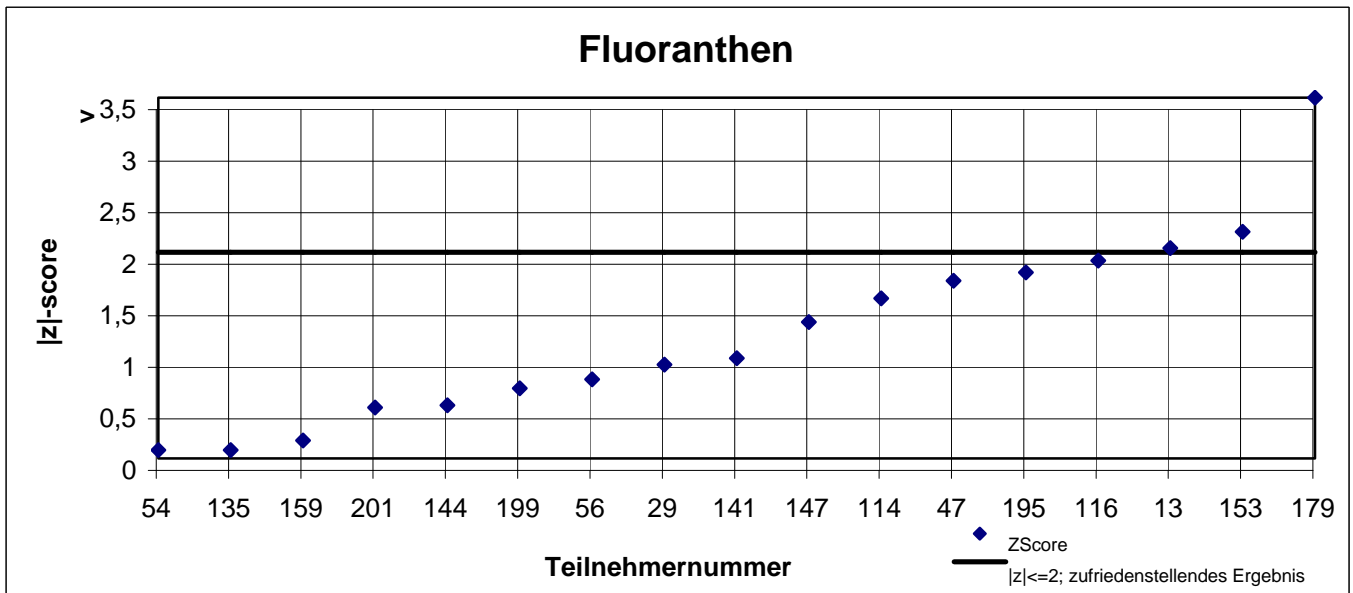
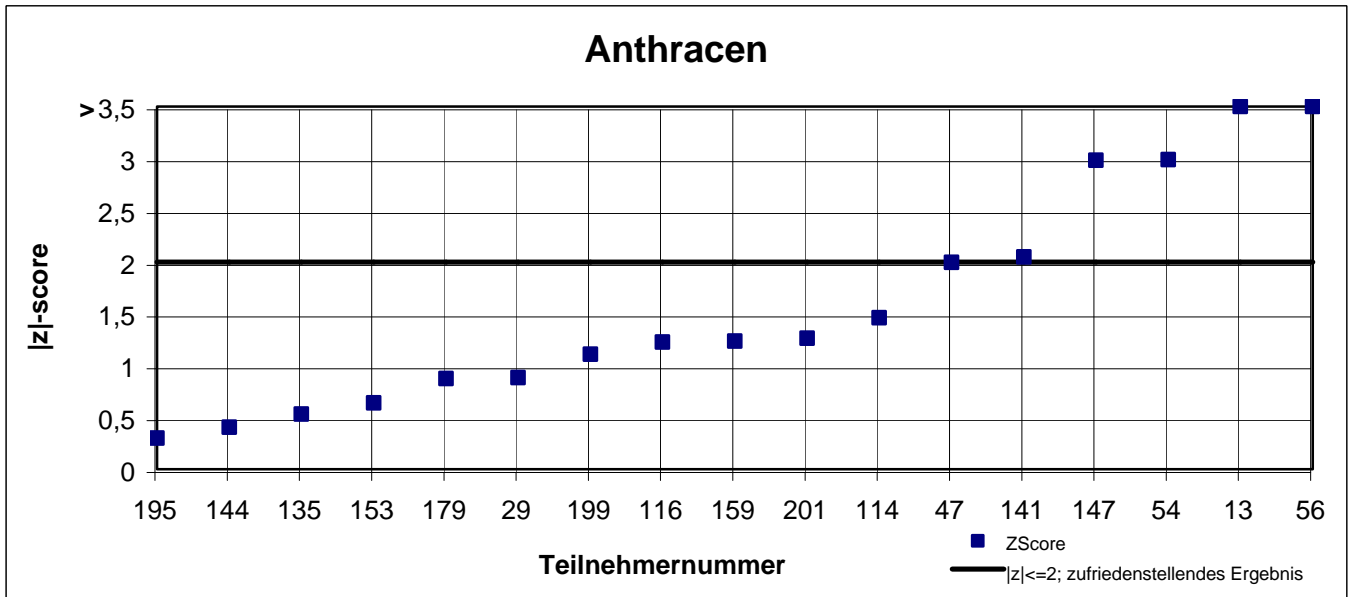
	anthracene	fluoranthene	phenanthrene
mean value c_k [μg / sample]	0,0302	0,286	0,159
standard deviation S_k [μg / sample]	0,0066	0,0463	0,0297
relative standard deviation [%]	22,05	16,23	18,72
"true value"	0,042	0,347	0,206

no z-score calculation (see enclosed letter)

Laborresultate XAD-Röhrchen 1



z-scores XAD 1



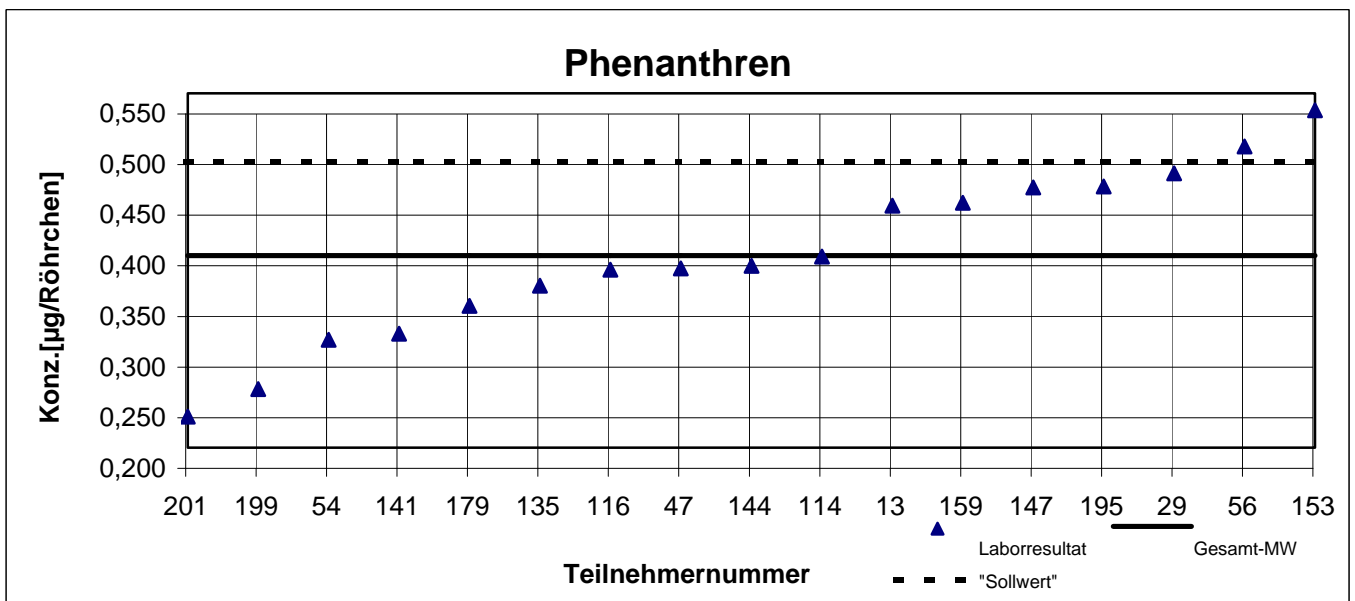
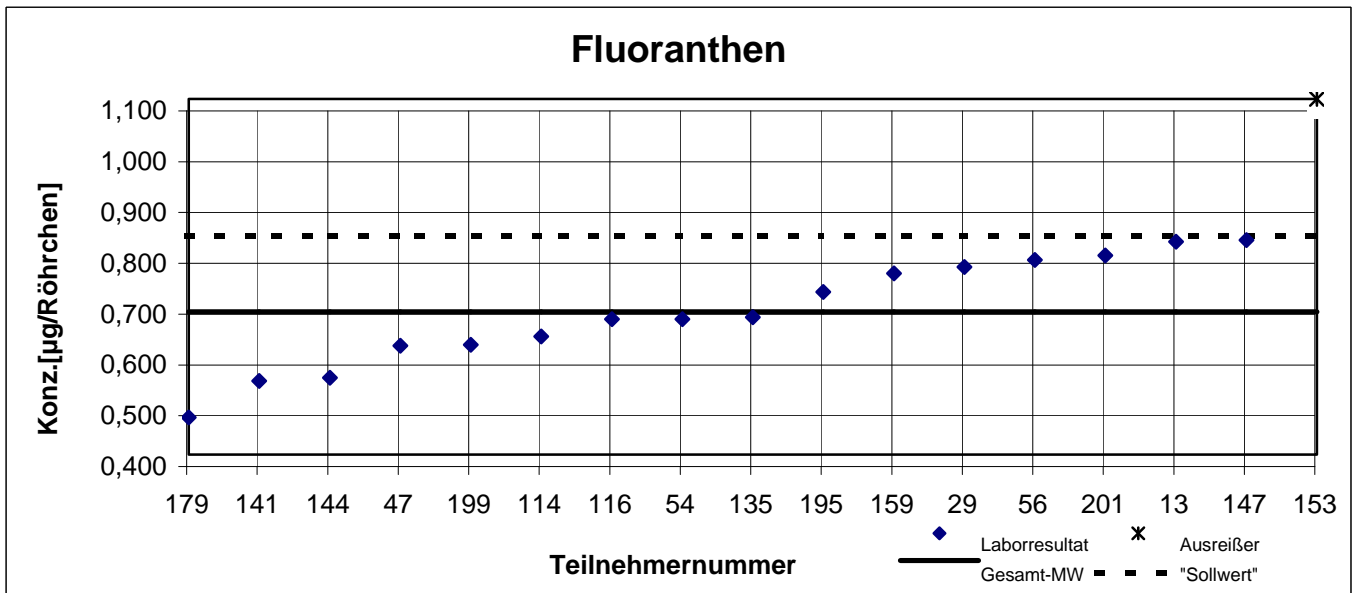
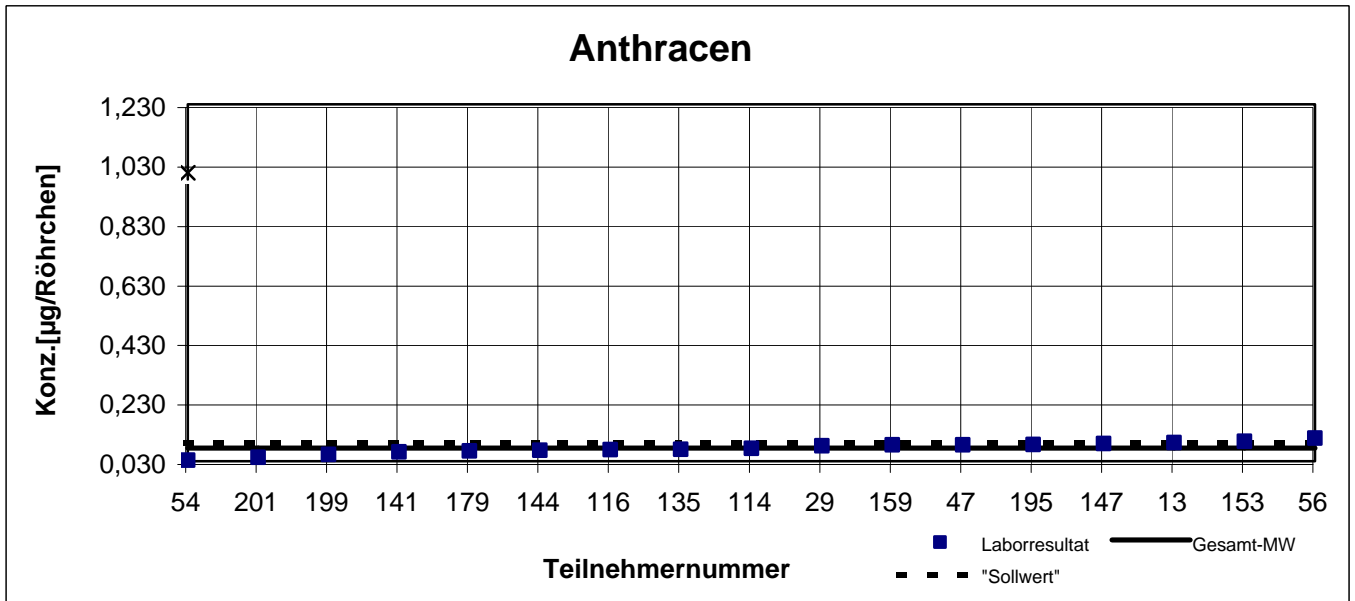
results XAD 2

participant number	anthracene	fluoranthene	phenanthrene
	result	result	result
13	0,0923	0,819	0,439
29	0,0820	0,769	0,471
47	0,0854	0,615	0,377
54	0,0333	0,667	0,307
56	0,1077	0,783	0,498
114	0,0727	0,633	0,389
116	0,0690	0,666	0,376
135	0,0700	0,670	0,360
141	0,0615	0,545	0,312
144	0,0670	0,551	0,380
147	0,0897	0,822	0,457
153	0,0967	1,100	0,533
159	0,0853	0,756	0,442
179	0,0643	0,473	0,340
195	0,0857	0,720	0,458
199	0,0523	0,616	0,258
201	0,0425	0,792	0,231

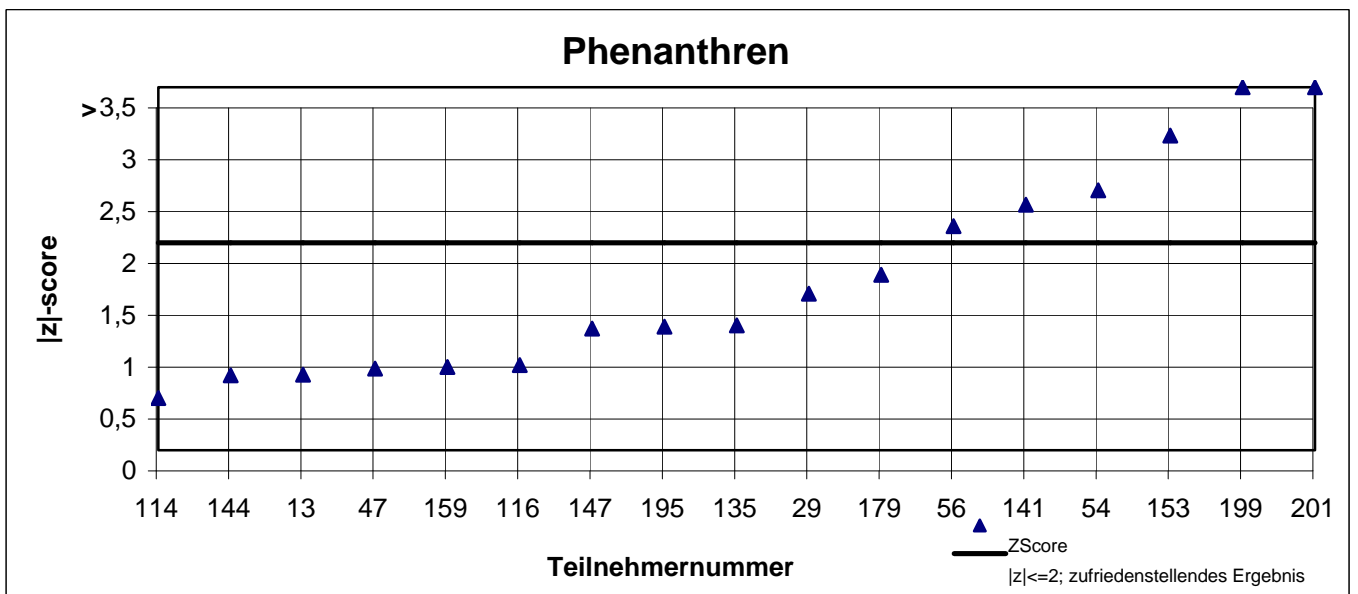
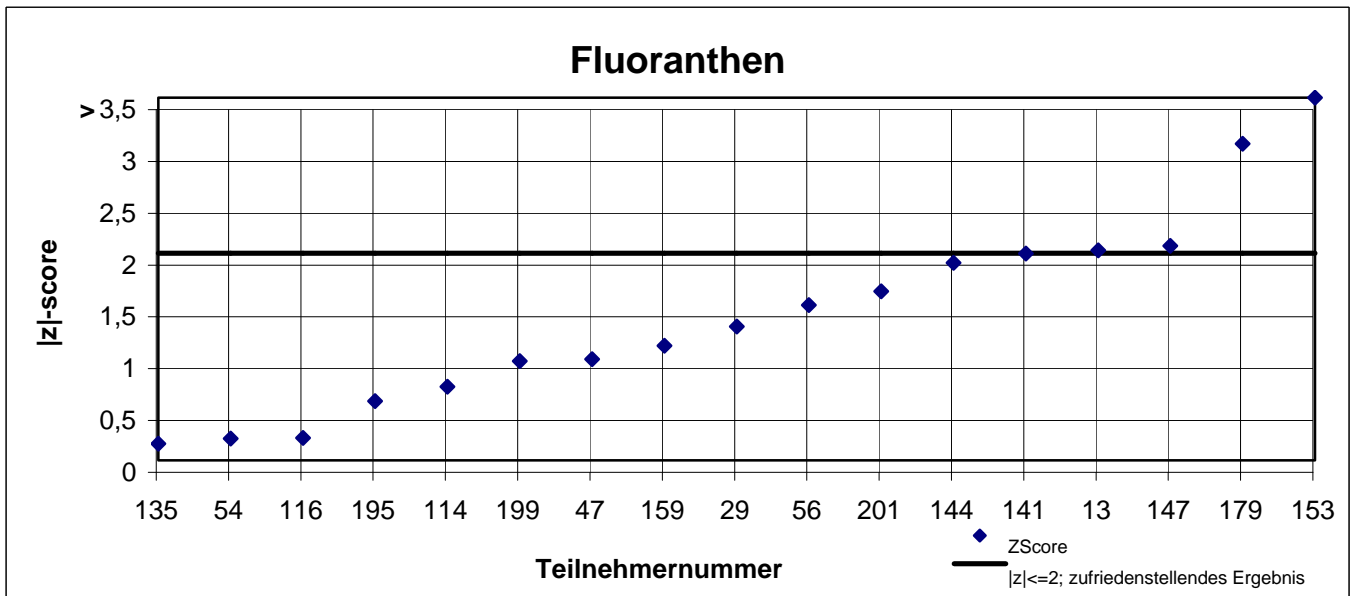
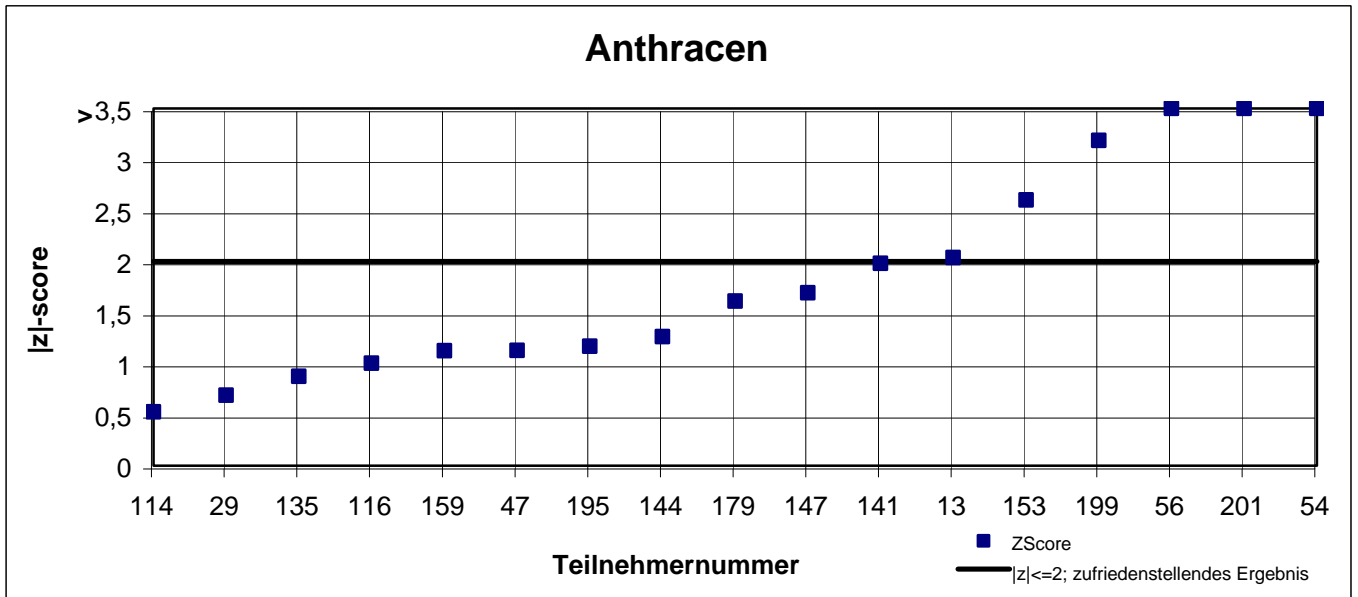
	anthracene	fluoranthene	phenanthrene
mean value c_k [μg / sample]	0,0739	0,681	0,390
standard deviation S_k [μg / sample]	0,0195	0,1054	0,0839
relative standard deviation [%]	26,50	15,48	21,53
"true value"	0,102	0,853	0,503

no z-score calculation (see enclosed letter)

Laborresultate XAD-Röhrchen 2



z-scores XAD 2



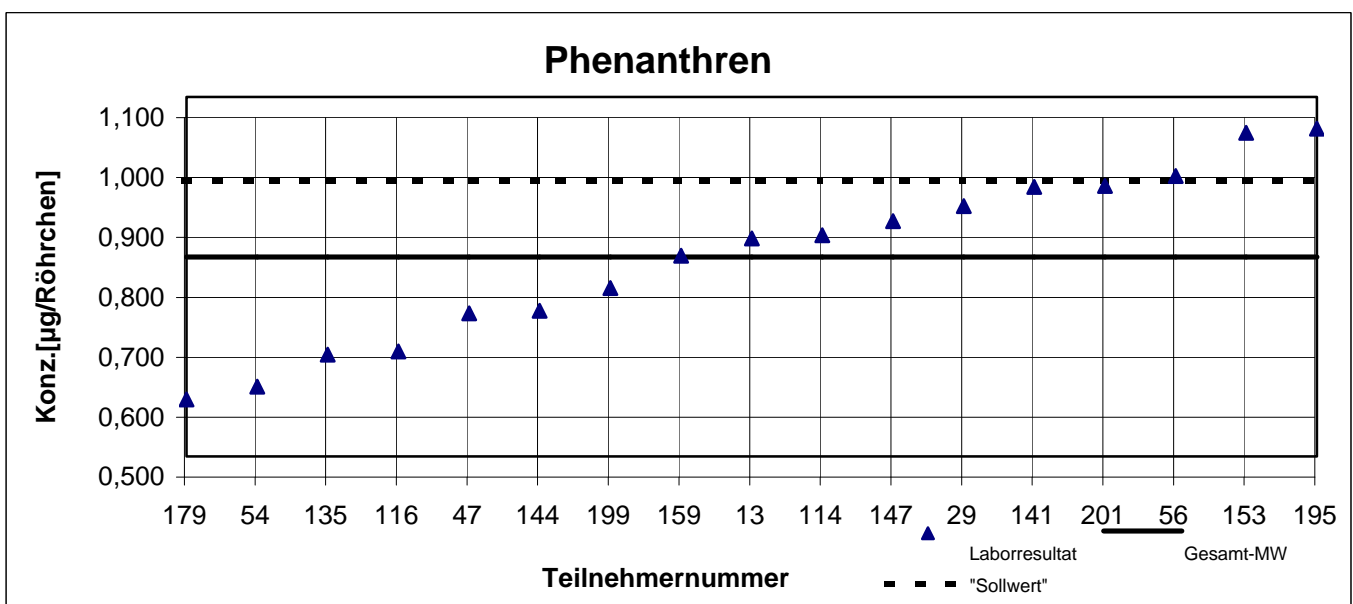
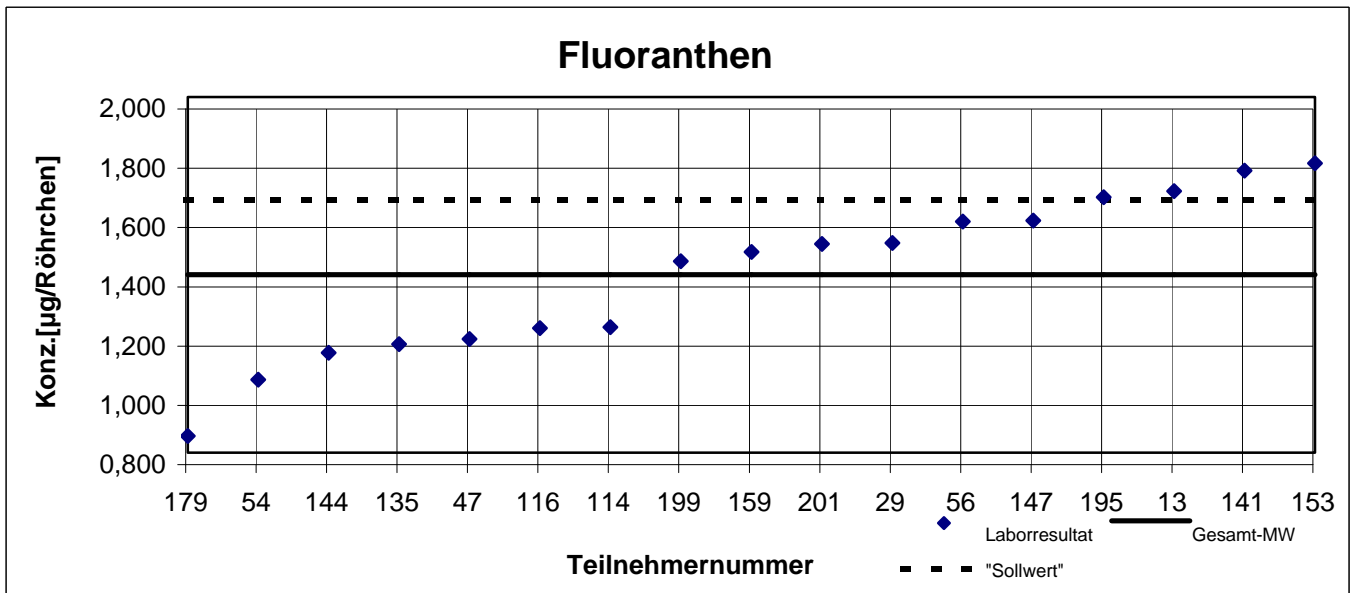
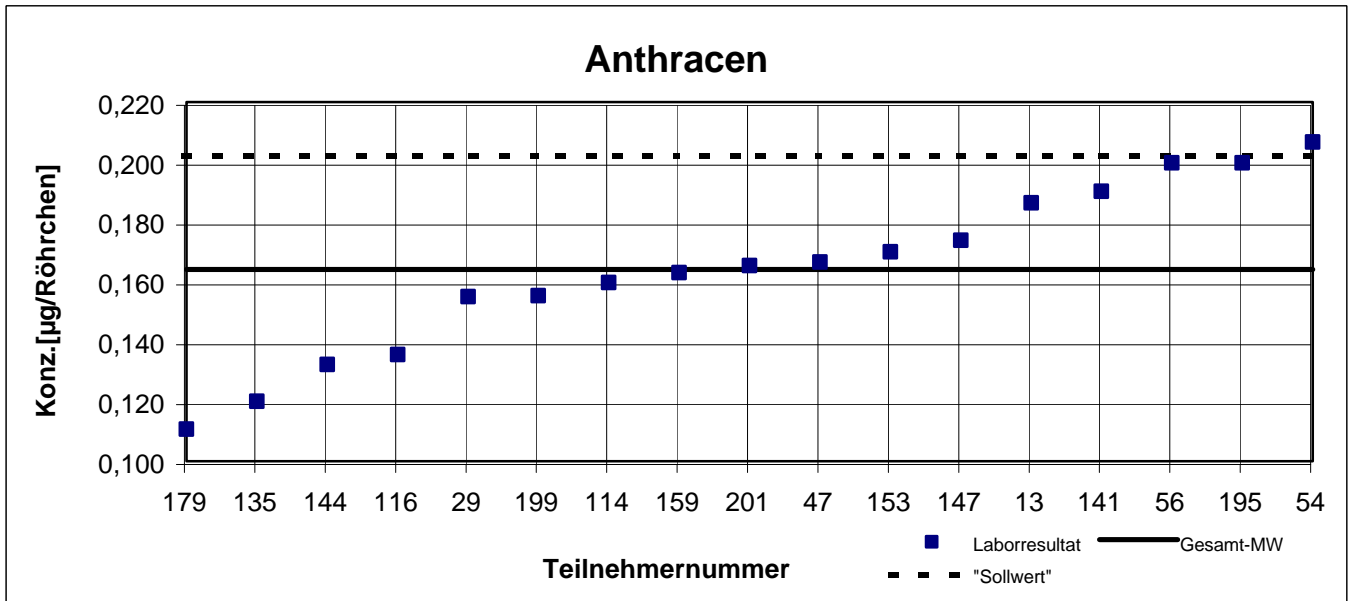
results XAD 3

participant number	anthracene result	fluoranthene result	phenanthrene result
13	0,186	1,682	0,864
29	0,155	1,508	0,918
47	0,167	1,184	0,739
54	0,207	1,047	0,617
56	0,200	1,580	0,968
114	0,160	1,223	0,869
116	0,136	1,220	0,675
135	0,120	1,167	0,670
141	0,190	1,751	0,950
144	0,132	1,137	0,743
147	0,174	1,583	0,892
153	0,170	1,777	1,040
159	0,163	1,477	0,835
179	0,111	0,856	0,595
195	0,200	1,662	1,047
199	0,155	1,446	0,781
201	0,165	1,504	0,952

	anthracene	fluoranthene	phenanthrene
mean value c_k [$\mu\text{g} / \text{sample}$]	0,164	1,400	0,833
standard deviation S_k [$\mu\text{g} / \text{sample}$]	0,0278	0,2697	0,1418
relative standard deviation [%]	17,00	19,27	17,04
"true value"	0,203	1,693	0,995

no z-score calculation (see enclosed letter)

Laborresultate XAD-Röhrchen 3



z-scores XAD 3

