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Supplement of

Double entry method for the verification of data a chromatography data system receives

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Table 1. Evaluation of the network data and comparison with stored data of the *Second Controller Instance* that handles the data provided by the underlying *LICOP* library. The conversion factor of 2097152 counts per AU or 2097.152 per mAU respectively has been requested from the HPLC detector. The data points after the caffeine peak are excluded from the table.

Time [s]	<i>Second Controller Instance</i> [mAU]	Network [counts]	Network [counts]	Network [mAU]
0	0.161170959472656	(00 00 01 52) _{hex}	(338) _{dec}	0.161170959472656
0.4	0.160694122314453	(00 00 01 51) _{hex}	(337) _{dec}	0.160694122314453
0.8	0.191688537597656	(00 00 01 92) _{hex}	(402) _{dec}	0.191688537597656
1.2	0.902652740478516	(00 00 07 65) _{hex}	(1893) _{dec}	0.902652740478516
1.6	8.052349090576170	(00 00 41 f7) _{hex}	(16887) _{dec}	8.052349090576170
2	35.695075988769500	(00 01 24 6a) _{hex}	(74858) _{dec}	35.695075988769500
2.4	90.866088867187500	(00 02 e8 60) _{hex}	(190560) _{dec}	90.866088867187500
2.8	161.372184753418000	(00 05 29 f6) _{hex}	(338422) _{dec}	161.372184753418000
3.2	223.629951477051000	(00 07 27 fa) _{hex}	(468986) _{dec}	223.629951477051000
3.6	263.221740722656000	(00 08 6c 50) _{hex}	(552016) _{dec}	263.221740722656000
4	277.694702148438000	(00 08 e2 e0) _{hex}	(582368) _{dec}	277.694702148438000
4.4	260.958671569824000	(00 08 59 c6) _{hex}	(547270) _{dec}	260.958671569824000
4.8	211.350440979004000	(00 06 c3 62) _{hex}	(443234) _{dec}	211.350440979004000
5.2	143.843650817871000	(00 04 9a 5e) _{hex}	(301662) _{dec}	143.843650817871000
5.6	83.312034606933500	(00 02 aa 7e) _{hex}	(174718) _{dec}	83.312034606933500
6	44.140815734863300	(00 01 69 9a) _{hex}	(92570) _{dec}	44.140815734863300
6.4	23.308753967285200	(00 00 be f2) _{hex}	(48882) _{dec}	23.308753967285200
6.8	12.988567352294900	(00 00 6a 67) _{hex}	(27239) _{dec}	12.988567352294900
7.2	7.875919342041020	(00 00 40 85) _{hex}	(16517) _{dec}	7.875919342041020
7.6	5.235671997070310	(00 00 2a e4) _{hex}	(10980) _{dec}	5.235671997070310
8	3.773212432861330	(00 00 1e e9) _{hex}	(7913) _{dec}	3.773212432861330
8.4	2.893447875976560	(00 00 17 b4) _{hex}	(6068) _{dec}	2.893447875976560
8.8	2.321243286132810	(00 00 13 04) _{hex}	(4868) _{dec}	2.321243286132810
9.2	1.928329467773440	(00 00 0f cc) _{hex}	(4044) _{dec}	1.928329467773440
9.6	1.646041870117190	(00 00 0d 7c) _{hex}	(3452) _{dec}	1.646041870117190
10	1.439094543457030	(00 00 0b ca) _{hex}	(3018) _{dec}	1.439094543457030
10.4	1.280784606933590	(00 00 0a 7e) _{hex}	(2686) _{dec}	1.280784606933590
10.8	1.157283782958980	(00 00 09 7b) _{hex}	(2427) _{dec}	1.157283782958980
11.2	1.062870025634770	(00 00 08 b5) _{hex}	(2229) _{dec}	1.062870025634770
11.6	0.999927520751953	(00 00 08 31) _{hex}	(2097) _{dec}	0.999927520751953
12	0.968933105468750	(00 00 07 f0) _{hex}	(2032) _{dec}	0.968933105468750
12.4	0.961780548095703	(00 00 07 e1) _{hex}	(2017) _{dec}	0.961780548095703
12.8	0.974178314208984	(00 00 07 fb) _{hex}	(2043) _{dec}	0.974178314208984
13.2	0.996589660644531	(00 00 08 2a) _{hex}	(2090) _{dec}	0.996589660644531
...

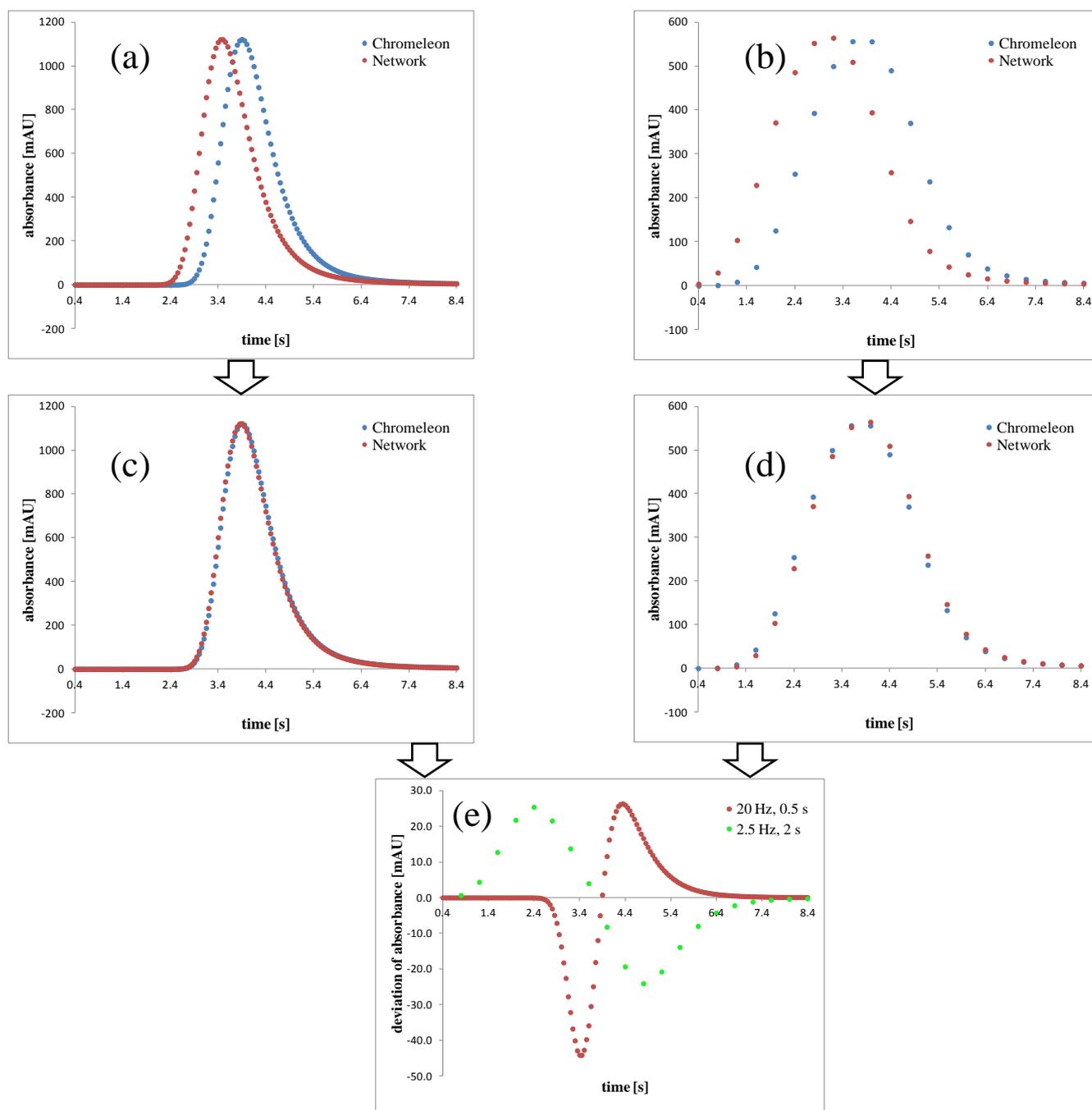


Figure 1. Comparison plots between *Chromeleon*® using the activated *average* parameter and the caught data packages of the network generated by the HPLC system B. (a) - Raw data of 20 Hz, (b) - Raw data of 2.5 Hz, (c, d) - time shift of the network data to align the peak apexes, (d) - deviation as difference between the chromatograms in (c, d) computing *Chromeleon*® data - network data.