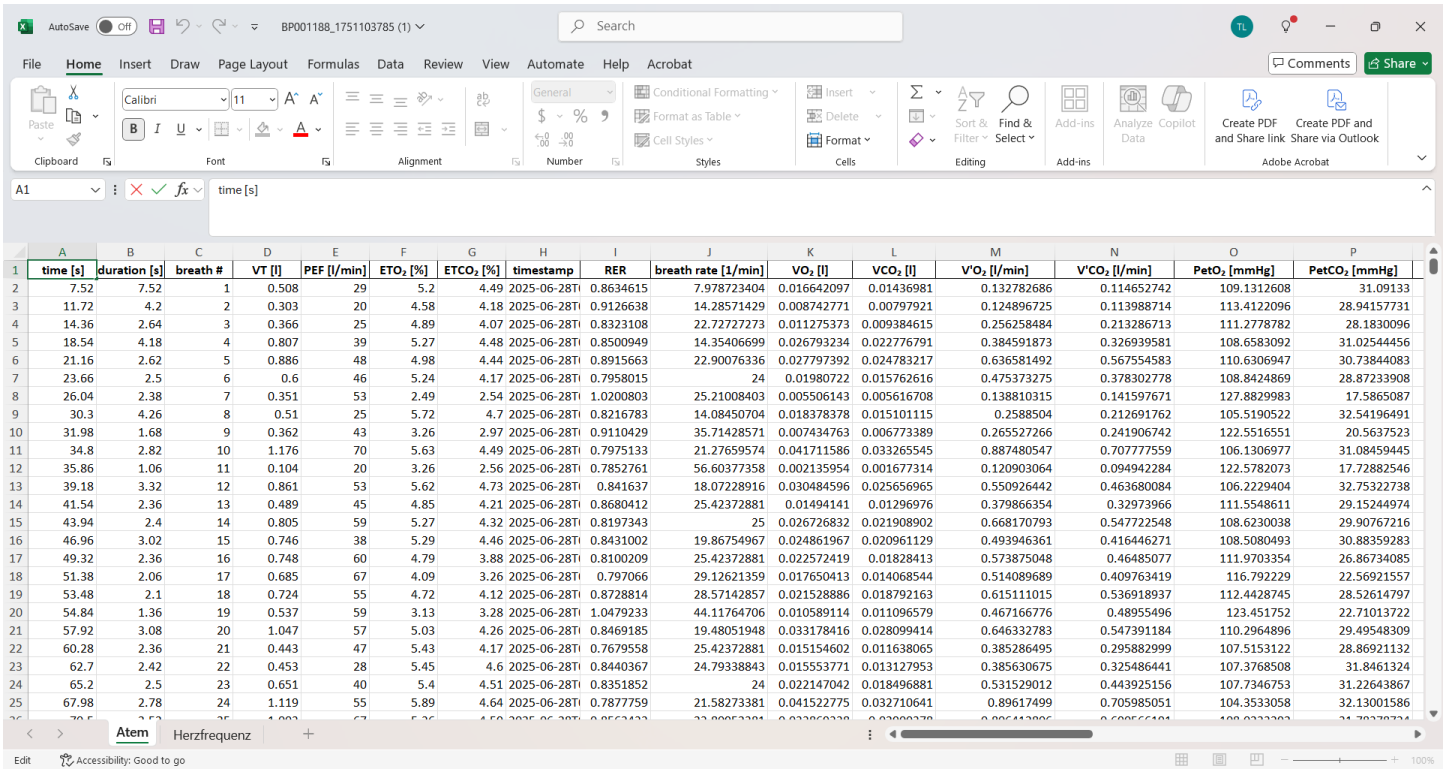
Raw data formatting will be presented in Excel table

Complete list of additional metrics is provided below



time [s]	duration [s]	breath #	VT [l]	PEF [l/min]	ETO_2 [%]	$ETCO_2$ [%]	timestamp	RER	breath rate [1/min]	VO_2 [l]	VCO_2 [l]	$V'O_2$ [l/min]	$V'CO_2$ [l/min]	$PetO_2$ [mmHg]	$PetCO_2$ [mmHg]
7.52	7.52	1	0.508	29	5.2	4.49	2025-06-28T0	0.8634615	7.978723404	0.016642097	0.01436981	0.132782686	0.114652742	109.1312608	31.09133
11.72	4.2	2	0.303	20	4.58	4.18	2025-06-28T0	0.9126638	14.28571429	0.008742771	0.00797921	0.124896725	0.113988714	113.4122096	28.94157731
14.36	2.64	3	0.366	25	4.89	4.07	2025-06-28T0	0.8323108	22.72727273	0.011275373	0.009384615	0.256258484	0.213286713	111.2778782	28.1830096
18.54	4.18	4	0.807	39	5.27	4.48	2025-06-28T0	0.8500949	14.35406699	0.026793234	0.022776791	0.384591873	0.326939581	108.6583092	31.02544456
21.16	2.62	5	0.886	48	4.98	4.44	2025-06-28T0	0.8915663	22.90076336	0.027797392	0.024783217	0.636581492	0.567554583	110.6306947	30.73844083
23.66	2.5	6	0.6	46	5.24	4.17	2025-06-28T0	0.7958015	24	0.01980722	0.015762616	0.475373275	0.378302778	108.8424869	28.87233908
26.04	2.38	7	0.351	53	2.49	2.54	2025-06-28T0	1.0200803	25.21008403	0.005506143	0.005616708	0.138810315	0.141597671	127.8829983	17.5865087
30.3	4.26	8	0.51	25	5.72	4.7	2025-06-28T0	0.8216783	14.08450704	0.018378378	0.015101115	0.2588504	0.212691762	105.5190522	32.54196491
31.98	1.68	9	0.362	43	3.26	2.97	2025-06-28T0	0.9110429	35.71428571	0.007434763	0.006773389	0.265527266	0.241906742	122.5516551	20.5637523
34.8	2.82	10	1.176	70	5.63	4.49	2025-06-28T0	0.7975133	21.27659574	0.041711586	0.033265545	0.887480547	0.707777559	106.1306977	31.08459445
35.86	1.06	11	0.104	20	3.26	2.56	2025-06-28T0	0.7852761	56.60377358	0.002135954	0.001677314	0.120903064	0.094942284	122.5782073	17.72882546
39.18	3.32	12	0.861	53	5.62	4.73	2025-06-28T0	0.841637	18.07228916	0.030484596	0.025656965	0.550926442	0.463680084	106.2229404	32.75322738
41.54	2.36	13	0.489	45	4.85	4.21	2025-06-28T0	0.8680412	25.42372881	0.01494141	0.01296976	0.379866354	0.32973966	111.5548611	29.15244974
43.94	2.4	14	0.805	59	5.27	4.32	2025-06-28T0	0.8197343	25	0.026726832	0.021908902	0.668170793	0.547722548	108.6230038	29.90767216
46.96	3.02	15	0.746	38	5.29	4.46	2025-06-28T0	0.8431002	19.86754967	0.024861967	0.020961129	0.493946361	0.416446271	108.5080493	30.88359283
49.32	2.36	16	0.748	60	4.79	3.88	2025-06-28T0	0.8100209	25.42372881	0.022572419	0.01828413	0.573875048	0.46485077	111.9703354	26.86734085
51.38	2.06	17	0.685	67	4.09	3.26	2025-06-28T0	0.797066	29.12621359	0.017650413	0.014068544	0.514089689	0.409763419	116.792229	22.56921557
53.48	2.1	18	0.724	55	4.72	4.12	2025-06-28T0	0.8728814	28.57142857	0.021528886	0.018792163	0.615111015	0.536918937	112.4428745	28.52614797
54.84	1.36	19	0.537	59	3.13	3.28	2025-06-28T0	1.0479233	44.11764706	0.010589114	0.011096579	0.467166776	0.48955496	123.451752	22.71013722
57.92	3.08	20	1.047	57	5.03	4.26	2025-06-28T0	0.8469185	19.48051948	0.033178416	0.028099414	0.646332783	0.547391184	110.2964896	29.49548309
60.28	2.36	21	0.443	47	5.43	4.17	2025-06-28T0	0.7679558	25.42372881	0.015154602	0.011638065	0.385286495	0.295882999	107.5153122	28.86921132
62.7	2.42	22	0.453	28	5.45	4.6	2025-06-28T0	0.8440367	24.79338843	0.015553771	0.013127953	0.385630675	0.325486441	107.3768508	31.8461324
65.2	2.5	23	0.651	40	5.4	4.51	2025-06-28T0	0.8351852	24	0.022147042	0.018496881	0.531529012	0.443925156	107.7346753	31.22643867
67.98	2.78	24	1.119	55	5.89	4.64	2025-06-28T0	0.7877759	21.58273381	0.041522775	0.032710641	0.89617499	0.705985051	104.3533058	32.13001586

Additional measurements provided via the downloaded data file:

Time [s]	*elapsed time in seconds*
Duration [s]	*breath duration*
Breath number	
TV [l]	*tidal volume*
PEF [l/min]	*peak flow*
ETO_2 [%]	*end-tidal oxygen value*
$ETCO_2$ [%]	*end-tidal carbon dioxide value*
Timestamp	
V'E [l/min	*minute ventilation*
Breath rate [1/min]	
VO_2 [ml]	*oxygen volume per breath*
VCO_2 [ml]	*carbon dioxide volume per breath*
$V'O_2$ [l/min]	*oxygen volume per minute*
$V'CO_2$ [l/min]	*carbon dioxide volume per minute*

RER	*respiratory exchange ratio*
EQO_2 ($V'E/V'O_2$)	*oxygen equivalent*
$EQCO_2$ ($V'E/V'CO_2$)	*carbon dioxide equivalent*
$V'O_2$/kg [l/min/kg]	*oxygen volume per minute per kg*
$V'CO_2$/kg [l/min/kg]	*carbon dioxide volume per minute per kg*
CHO [%]	*carbohydrate proportion*
Fat [%]	*fat proportion*
EE [kcal]	*energy expenditure*
EECHO [kcal]	*energy expenditure carbohydrates*
EEFat [kcal]	*energy expenditure fat*
HR [BPM]	*heart rate*
Speed [m/s]	
Latitude [°]	*geolocation position latitude*
Longitude [°]	*geolocation position longitude*
Pace [min/km]	