

Test ID:	PNB 19048
Date:	1/21/20

ISS-1											
Test Duration (hh:mm:ss)	T _i	V _m	v _i	T _m	T _e	V _m	v _i	T _i	T _m	PR	
0:00:00			0.17								
0:10:00	10	0.057	1.345967	288.8	325.4	0.057	0.78	289.6854	288.8444	199.8928	
0:20:00	20	0.057	1.097544	288.9	341.8722	0.114	1.22	313.031	288.9833	98.41898	
0:30:00	30	0.059	0.907214	288.9	346.3167	0.173	1.00	333.7537	288.9833	95.7939	
0:40:00	40	0.059	0.811441	289.3	347.9833	0.232	0.86	351.4034	289.9556	94.54399	
0:50:00	50	0.058	0.792538	289.7	348.9278	0.290	0.80	361.1911	291.2056	94.49178	
1:00:00	60	0.059	0.795847	290.1	349.2056	0.348	0.79	369.5607	292.0389	95.3884	
1:10:00	70	0.061	0.778924	290.5	349.5111	0.410	0.79	374.6571	292.8722	96.0454	
1:20:00	80	0.057	0.782284	290.9	349.5667	0.467	0.79	379.3983	291.5667	89.6022	
1:30:00	90	0.058	0.791747	291.2	349.8444	0.525	0.79	382.7477	294.2611	90.23222	
1:40:00	100	0.063	0.784268	291.6	350.0667	0.587	0.79	385.2022	294.8167	95.29416	
1:50:00	110	0.063	0.769386	291.9	350.5667	0.651	0.78	387.7161	295.2333	94.91235	
2:00:00	120	0.063	0.758902	292.2	337.0111	0.714	0.76	389.5713	295.65	89.74598	
2:10:00	130	0.064	0.798444	292.5	336.7889	0.778	0.78	390.4782	295.9278	94.06889	
2:20:00	140	0.067	0.886015	292.7	335.6778	0.845	0.84	389.9683	296.2056	99.47506	
2:30:00	150	0.069	0.862008	293.0	335.4	0.914	0.87	389.4826	296.6222	95.08749	
2:40:00	160	0.070	0.874681	293.2	337.1222	0.984	0.87	388.9533	296.7611	97.52006	
2:50:00	170	0.070	0.877225	293.4	337.3167	1.054	0.88	388.8131	296.7611	97.28654	
3:00:00	180	0.070	0.877732	293.6	337.9278	1.124	0.88	388.4928	296.7611	96.77579	
3:10:00	190	0.069	0.893445	293.7	337.7333	1.194	0.89	388.3845	296.7611	95.89032	
3:20:00	200	0.069	0.879121	293.9	335.6778	1.263	0.89	388.2349	296.7611	92.58081	
3:30:00	210	0.071	0.874307	294.0	339.0111	1.333	0.88	388.0831	296.7611	96.05304	
3:40:00	220	0.070	0.889476	294.1	336.2056	1.403	0.88	388.0442	296.7611	94.98555	
3:50:00	230	0.070	0.864965	294.3	337.7889	1.473	0.88	387.9471	297.0389	93.4221	
4:00:00	240	0.070	0.873549	294.4	332.6778	1.543	0.87	387.7948	297.4556	92.44143	
4:10:00	250	0.072	0.870869	294.5	325.9	1.615	0.87	387.6396	297.1778	92.26554	
4:20:00	260	0.076	0.932404	294.6	327.5389	1.691	0.90	386.7924	296.7611	101.2673	
4:30:00	270	0.077	0.934032	294.7	326.6778	1.767	0.93	385.9161	296.7611	98.45125	
4:40:00	280	0.077	0.905457	294.7	326.8167	1.845	0.92	385.3567	296.7611	97.48118	
4:50:00	290	0.077	0.906857	294.8	326.9556	1.922	0.91	384.5572	296.7611	98.59556	
5:00:00	300	0.077	0.913319	294.9	327.7889	1.999	0.91	383.9711	296.7611	98.91966	
5:10:00	310	0.077	0.912068	294.9	327.4	2.076	0.91	383.3074	296.6222	97.24228	
5:20:00	320	0.078	0.905476	295.0	326.65	2.154	0.91	382.7845	296.3444	97.90297	
5:30:00	330	0.077	0.906996	295.0	325.6222	2.231	0.91	382.1718	295.7889	96.53737	
5:40:00	340	0.079	0.919481	295.0	326.8167	2.309	0.91	381.6475	295.3722	99.616	
5:50:00	350	0.076	0.898745	295.0	326.0667	2.386	0.91	381.1008	295.0944	94.83316	
6:00:00	360	0.077	0.884744	295.0	326.7889	2.463	0.89	380.6151	294.8167	95.78611	
6:10:00	370	0.079	0.924	295.0	325.6778	2.541	0.90	380.2069	294.6778	100.225	
6:20:00	380	0.076	0.891607	294.9	326.0389	2.617	0.91	379.7407	294.5389	92.88	
6:30:00	390	0.077	0.888216	294.9	324.8167	2.694	0.89	379.4198	294.2611	96.00002	
6:40:00	400	0.077	0.920893	294.9	325.2889	2.771	0.90	378.9369	293.8444	97.49807	
6:50:00	410	0.076	0.927108	294.9	325.8444	2.848	0.92	378.5836	293.7056	95.43102	
7:00:00	420	0.077	#DIV/0!	Error	289.0944	2.925	#DIV/0!	378.138	Error	#DIV/0!	

ISS-2											
Test Duration (hh:mm:ss)	T _i	V _m	v _i	T _m	T _e	V _m	v _i	T _i	T _m	PR	
0:00:00			0.17								
0:10:00	10	0.058333	1.35	289.2611	290.65	0.058333	0.75636	289.6854	289.2611	178.5459	
0:20:00	20	0.058474	1.10	289.2611	325.4	0.116807	1.221756	313.031	289.2611	93.49621	
0:30:00	30	0.058616	0.91	289.5389	341.8722	0.175423	1.002379	333.7537	289.5389	92.93212	
0:40:00	40	0.058899	0.81	290.0944	346.3167	0.234322	0.859328	351.4034	290.0944	93.56663	
0:50:00	50	0.059607	0.79	290.65	347.9833	0.293929	0.80199	361.1911	290.65	96.53783	
1:00:00	60	0.060032	0.80	291.2056	348.9278	0.353961	0.794193	369.5607	291.2056	96.27879	
1:10:00	70	0.060032	0.78	292.0389	349.2056	0.413992	0.787386	374.6571	292.0389	93.59257	
1:20:00	80	0.061306	0.79	292.8722	349.5111	0.475298	0.785604	379.3983	292.8722	95.86701	
1:30:00	90	0.060598	0.79	293.7056	349.5667	0.535896	0.792015	382.7477	293.7056	92.91601	
1:40:00	100	0.065695	0.78	294.5389	349.8444	0.601591	0.788007	385.2022	294.5389	98.70785	
1:50:00	110	0.065837	0.77	295.0944	350.0667	0.667428	0.776827	387.7161	295.0944	97.03154	
2:00:00	120	0.066828	0.76	295.65	350.5667	0.734256	0.764144	389.5713	295.65	97.60788	
2:10:00	130	0.067111	0.80	295.9278	337.0111	0.801367	0.778673	390.4782	295.9278	96.34783	
2:20:00	140	0.069518	0.89	296.2056	336.7889	0.870885	0.842229	389.9683	296.2056	101.532	
2:30:00	150	0.071925	0.86	296.4833	335.6778	0.942809	0.874011	389.4826	296.4833	97.26903	
2:40:00	160	0.073057	0.87	296.7611	335.4	1.015867	0.868344	388.9533	296.7611	99.94729	
2:50:00	170	0.073057	0.88	297.0389	337.1222	1.088924	0.875953	388.8131	297.0389	99.03587	
3:00:00	180	0.073765	0.88	297.0389	337.3167	1.16369	0.877479	388.4928	297.0389	99.18402	
3:10:00	190	0.076739	0.89	297.0389	337.9278	1.239428	0.885589	388.3845	297.0389	103.2628	
3:20:00	200	0.071075	0.88	297.0389	337.7333	1.310504	0.886283	388.2349	297.0389	93.59788	
3:30:00	210	0.073057	0.87	297.0389	335.6778	1.383561	0.876714	388.0831	297.0389	95.65099	
3:40:00	220	0.073907	0.89	297.0389	339.0111	1.457468	0.881891	388.0442	297.0389	98.30165	
3:50:00	230	0.073482	0.86	297.0389	336.2056	1.53095	0.87722	387.9471	297.0389	94.13464	
4:00:00	240	0.073765	0.87	297.3167	337.7889	1.604716	0.869257	387.7948	297.3167	96.57136	
4:10:00	250	0.075889	0.87	297.5944	332.6778	1.680605	0.872209	387.6396	297.5944	96.73466	
4:20:00	260	0.079712	0.93	297.5944	325.9	1.760317	0.901637	386.7924	297.5944	102.5852	
4:30:00	270	0.079004	0.93	297.5944	327.5389	1.839321	0.933218	385.9161	297.5944	98.51538	
4:40:00	280	0.079995	0.91	297.5944	326.6778	1.919316	0.919745	385.3567	297.5944	97.39398	
4:50:00	290	0.079004	0.91	297.5944	326.8167	1.99832	0.906157	384.5572	297.5944	97.5126	
5:00:00	300	0.079957	0.91	297.5944	326.9556	2.07789	0.910088	383.9711	297.5944	98.17004	
5:10:00	310	0.079287	0.91	297.3167	327.7889	2.157177	0.912693	383.3074	297.3167	97.37068	
5:20:00	320	0.081128	0.91	297.0389	327.4	2.238305	0.900772	382.7845	297.0389	98.84311	
5:30:00	330	0.079712	0.91	296.7611	326.65	2.318017	0.906236	382.1718	296.7611	97.07528	
5:40:00	340	0.079287	0.92	296.2056	325.6222	2.397304	0.913238	381.6475	296.2056	96.59817	
5:50:00	350	0.080278	0.90	295.9278	326.8167	2.477582	0.909113	381.1008	295.9278	96.14371	
6:00:00	360	0.079995	0.88	295.65	326.0667	2.557578	0.891745	380.6151	295.65	95.70502	
6:10:00	370	0.08042	0.92	295.0944	326.7889	2.637997	0.904372	380.2069	295.0944	99.05186	
6:20:00	380	0.078438	0.89	294.8167	325.6778	2.716435	0.907803	379.7407	294.8167	92.42542	
6:30:00	390	0.07957	0.89	294.8167	326.0389	2.796005	0.889911	379.4198	294.8167	95.1917	
6:40:00	400	0.079174	0.92	294.5389	324.8167	2.875179	0.904555	378.9369	294.5389	96.12204	
6:50:00	410	0.079542	0.93	294.2611	325.2889	2.954721	0.924001	378.5836	294.2611	95.15454	
7:00:00	420	0.079004	#DIV/0!	Error	325.8444	3.033725	#DIV/0!	378.138	Error	#DIV/0!	

T_t	total sampling time	min
V_m	volume of dry gas sample as measured by dry gas meter during each 10 minute interval, i , of the test run	dry m ³
v_i	average gas velocity in the dilution tunnel (gas molecular weight may be assumed to be 29g/gmol)	m/s
T_m	absolute average dry gas meter temperature	K
T_e	absolute average gas temperature in the dilution tunnel during each 10 min interval, i , of test run	K
V_m	volume of gas sample as measured by dry gas meter	dry m ³
v_i	average gas velocity in the dilution tunnel during each 10 min interval, i , of the test run	m/s
T_e	absolute average gas temperature in the dilution tunnel	K
T_m	absolute average dry gas meter temperature during each 10 min interval, i , of the test run	K
PR	proportional rate variation for each 10 minute interval	%

7:10:00	430	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
7:20:00	440	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
7:30:00	450	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
7:40:00	460	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
7:50:00	470	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
8:00:00	480	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
8:10:00	490	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
8:20:00	500	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
8:30:00	510	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
8:40:00	520	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
8:50:00	530	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
9:00:00	540	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
9:10:00	550	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
9:20:00	560	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
9:30:00	570	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
9:40:00	580	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
9:50:00	590	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
10:00:00	600	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
10:10:00	610	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
10:20:00	620	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
10:30:00	630	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
10:40:00	640	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
10:50:00	650	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
11:00:00	660	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
11:10:00	670	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
11:20:00	680	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
11:30:00	690	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
11:40:00	700	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
11:50:00	710	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
12:00:00	720	Error	#DIV/0!	Error	0	Error	#DIV/0!	378.138	Error	#VALUE!

7:10:00	430	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
7:20:00	440	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
7:30:00	450	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
7:40:00	460	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
7:50:00	470	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
8:00:00	480	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
8:10:00	490	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
8:20:00	500	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
8:30:00	510	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
8:40:00	520	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
8:50:00	530	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
9:00:00	540	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
9:10:00	550	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
9:20:00	560	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
9:30:00	570	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
9:40:00	580	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
9:50:00	590	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
10:00:00	600	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
10:10:00	610	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
10:20:00	620	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
10:30:00	630	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
10:40:00	640	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
10:50:00	650	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
11:00:00	660	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
11:10:00	670	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
11:20:00	680	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
11:30:00	690	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
11:40:00	700	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
11:50:00	710	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!
12:00:00	720	Error	#DIV/0!	Error	289.0944	Error	#DIV/0!	378.138	Error	#VALUE!