

ภาคผนวก ก

ผลการวัดค่าการส่องผ่านแสงรวม(Total transmittance: TT %) และ
ค่าการส่องผ่านแสงกระจาย (Diffuse transmittance: TD %)

ตารางแสดงผลการวัดค่าการส่องผ่านแสงของกระจก SnO₂:F ช่วงความยาวคลื่น 380-980 nm.

Wavelength (nm.)	TT(%)	TD(%)									
380	40.638	18.297	456	77.106	22.465	532	81.741	19.813	608	82.057	17.412
382	51.271	19.341	458	77.202	22.355	534	81.85	19.743	610	82.137	17.416
384	60.42	21.361	460	77.354	22.248	536	82.014	19.68	612	82.209	17.416
386	63.043	23.821	462	77.45	22.146	538	82.091	19.622	614	82.318	17.416
388	68.775	28.326	464	77.605	22.029	540	82.159	19.563	616	82.417	17.399
390	71.023	27.38	466	77.592	21.915	542	82.212	19.494	618	82.501	17.397
392	71.478	27.248	468	77.575	21.784	544	82.239	19.416	620	82.562	17.377
394	71.847	27.074	470	77.617	21.677	546	82.288	19.315	622	82.671	17.357
396	72.015	26.831	472	77.64	21.539	548	82.31	19.233	624	82.773	17.323
398	72.218	26.661	474	77.715	21.459	550	82.327	19.147	626	82.835	17.31
400	72.405	26.558	476	77.769	21.354	552	82.355	19.075	628	82.919	17.299
402	72.671	26.361	478	77.83	21.235	554	82.343	18.981	630	83.013	17.278
404	72.685	26.157	480	77.903	21.12	556	82.345	18.833	632	83.064	17.244
406	72.893	25.979	482	77.882	20.996	558	82.314	18.757	634	83.143	17.213
408	72.903	25.762	484	77.98	20.892	560	82.26	18.698	636	83.235	17.177
410	72.888	25.52	486	78.1	20.858	562	82.207	18.659	638	83.295	17.14
412	73.02	25.365	488	78.132	20.788	564	82.164	18.595	640	83.356	17.116
414	73.09	25.218	490	78.228	20.732	566	82.11	18.478	642	83.417	17.09
416	73.124	25.049	492	78.38	20.654	568	82.063	18.372	644	83.457	17.046
418	73.237	25.05	494	78.481	20.611	570	82.016	18.269	646	83.528	17.013
420	73.448	24.788	496	78.646	20.57	572	81.958	18.171	648	83.55	16.967
422	73.68	24.316	498	78.79	20.518	574	81.852	18.073	650	83.575	16.921
424	74.066	23.908	500	78.931	20.469	576	81.814	18	652	83.572	16.869
426	74.172	23.648	502	79.096	20.409	578	81.775	17.909	654	83.604	16.824
428	74.137	23.547	504	79.277	20.386	580	81.754	17.846	656	83.602	16.778
430	74.551	23.554	506	79.443	20.337	582	81.732	17.759	658	83.592	16.715
432	74.675	23.474	508	79.64	20.293	584	81.704	17.675	660	83.585	16.653
434	74.802	23.431	510	79.85	20.254	586	81.69	17.597	662	83.57	16.595
436	75.163	23.356	512	80.038	20.23	588	81.668	17.56	664	83.543	16.554
438	75.395	23.323	514	80.157	20.195	590	81.658	17.516	666	83.545	16.482
440	75.46	23.17	516	80.389	20.133	592	81.674	17.479	668	83.481	16.417
442	75.833	23.091	518	80.613	20.115	594	81.666	17.447	670	83.445	16.385
444	76.011	23.033	520	80.775	20.106	596	81.714	17.435	672	83.38	16.311
446	76.265	23.071	522	80.939	20.07	598	81.767	17.428	674	83.298	16.216
448	76.451	22.969	524	81.164	20.026	600	81.802	17.416	676	83.246	16.156
450	76.66	22.831	526	81.311	19.971	602	81.87	17.423	678	83.163	16.108
452	76.844	22.73	528	81.434	19.909	604	81.944	17.427	680	83.084	16.038
454	76.997	22.641	530	81.598	19.848	606	81.996	17.427	682	83.038	15.992

ตารางแสดงผลการวัดค่าการส่องผ่านแสงของกระจก SnO₂:F ช่วงความยาวคลื่น 380-980 nm. (ต่อ)

Wavelength (nm.)	TT(%)	TD(%)									
684	82.897	15.886	760	80.4	14.607	836	81.628	14.56	912	77.537	13.556
686	82.788	15.814	762	80.437	14.587	838	81.618	14.56	914	77.367	13.534
688	82.653	15.732	764	80.447	14.59	840	81.568	14.557	916	77.19	13.518
690	82.544	15.671	766	80.513	14.591	842	81.55	14.532	918	77.054	13.497
692	82.439	15.621	768	80.489	14.584	844	81.504	14.505	920	76.873	13.457
694	82.349	15.573	770	80.558	14.573	846	81.472	14.507	922	76.731	13.434
696	82.238	15.514	772	80.584	14.566	848	81.372	14.487	924	76.562	13.404
698	82.147	15.472	774	80.642	14.559	850	81.367	14.455	926	76.405	13.366
700	82.05	15.416	776	80.654	14.567	852	81.269	14.437	928	76.253	13.347
702	81.921	15.346	778	80.732	14.584	854	81.249	14.418	930	76.134	13.323
704	81.797	15.303	780	80.751	14.573	856	81.167	14.408	932	76.007	13.287
706	81.7	15.267	782	80.845	14.587	858	81.081	14.378	934	75.938	13.288
708	81.576	15.208	784	80.893	14.581	860	81.005	14.352	936	75.806	13.236
710	81.488	15.165	786	80.953	14.563	862	80.951	14.339	938	75.733	13.197
712	81.378	15.134	788	81.005	14.56	864	80.848	14.295	940	75.605	13.204
714	81.275	15.08	790	81.068	14.553	866	80.727	14.254	942	75.562	13.177
716	81.192	15.033	792	81.076	14.554	868	80.644	14.255	944	75.497	13.168
718	81.117	15.005	794	81.165	14.627	870	80.483	14.22	946	75.408	13.175
720	81.024	14.958	796	81.253	14.725	872	80.39	14.179	948	75.382	13.15
722	80.955	14.918	798	81.378	14.772	874	80.297	14.162	950	75.281	13.12
724	80.883	14.909	800	81.412	14.752	876	80.181	14.14	952	75.27	13.142
726	80.813	14.867	802	81.451	14.725	878	80.057	14.098	954	75.23	13.148
728	80.75	14.834	804	81.468	14.726	880	79.901	14.069	956	75.25	13.155
730	80.696	14.825	806	81.508	14.726	882	79.806	14.067	958	75.151	13.197
732	80.635	14.789	808	81.559	14.717	884	79.674	14.017	960	75.184	13.214
734	80.601	14.764	810	81.61	14.706	886	79.561	13.972	962	75.128	13.186
736	80.548	14.758	812	81.637	14.701	888	79.376	13.969	964	75.148	13.181
738	80.506	14.726	814	81.663	14.701	890	79.289	13.932	966	75.242	13.264
740	80.449	14.706	816	81.673	14.709	892	79.11	13.864	968	75.233	13.237
742	80.423	14.714	818	81.653	14.688	894	79.025	13.877	970	75.304	13.293
744	80.351	14.681	820	81.663	14.676	896	78.842	13.871	972	75.298	13.352
746	80.362	14.652	822	81.704	14.664	898	78.681	13.835	974	75.418	13.365
748	80.35	14.651	824	81.719	14.652	900	78.557	13.786	976	75.508	13.39
750	80.35	14.632	826	81.734	14.642	902	78.384	13.759	978	75.811	13.56
752	80.35	14.622	828	81.746	14.646	904	78.209	13.727	980	75.272	13.461
754	80.389	14.616	830	81.703	14.644	906	78.053	13.687			
756	80.36	14.613	832	81.684	14.611	908	77.904	13.637			
758	80.409	14.598	834	81.662	14.582	910	77.726	13.591			

ผลการวัดค่าการส่งผ่านแสงกระจก ZnO ที่ไม่เติมสารเจือ B₂H₆ ช่วงความยาวคลื่น 380-980 nm.

Wavelength (nm.)	TT(%)	TD(%)									
380	0.964	0.1615	456	70.971	39.232	532	76.989	34.407	608	78.783	29.564
382	1.591	0.501	458	71.145	39.074	534	77.01	34.255	610	78.781	29.475
384	3.692	3.459	460	71.368	38.948	536	77.106	34.088	612	78.787	29.383
386	8.943	6.341	462	71.615	38.865	538	77.166	33.934	614	78.822	29.292
388	21.849	15.423	464	71.881	38.767	540	77.206	33.776	616	78.874	29.206
390	27.284	18.446	466	72.047	38.607	542	77.251	33.63	618	78.918	29.113
392	33.485	22.727	468	72.266	38.508	544	77.318	33.481	620	78.963	29.017
394	39.015	26.449	470	72.492	38.398	546	77.332	33.343	622	79.025	28.918
396	43.668	29.439	472	72.683	38.289	548	77.405	33.19	624	79.088	28.827
398	47.675	31.942	474	72.893	38.215	550	77.475	33.06	626	79.139	28.743
400	50.994	33.985	476	73.086	38.14	552	77.543	32.914	628	79.219	28.668
402	53.825	35.628	478	73.269	38.028	554	77.547	32.751	630	79.295	28.591
404	56.145	36.936	480	73.5	37.883	556	77.618	32.598	632	79.349	28.51
406	58.17	38.03	482	73.667	37.727	558	77.719	32.515	634	79.427	28.432
408	59.706	38.797	484	73.853	37.594	560	77.784	32.409	636	79.508	28.35
410	60.968	39.342	486	74.027	37.48	562	77.859	32.318	638	79.569	28.254
412	62.057	39.843	488	74.096	37.271	564	77.945	32.179	640	79.612	28.136
414	63.019	40.25	490	74.225	37.111	566	78.05	32.067	642	79.666	28.032
416	63.822	40.494	492	74.36	36.945	568	78.154	31.95	644	79.691	27.917
418	64.59	40.687	494	74.443	36.785	570	78.283	31.851	646	79.721	27.815
420	65.278	40.92	496	74.559	36.612	572	78.373	31.74	648	79.747	27.703
422	65.916	40.87	498	74.676	36.427	574	78.417	31.629	650	79.779	27.587
424	66.529	40.85	500	74.752	36.252	576	78.516	31.507	652	79.763	27.458
426	66.948	40.748	502	74.831	36.138	578	78.589	31.371	654	79.77	27.337
428	67.133	40.665	504	75.006	36.01	580	78.67	31.239	656	79.741	27.192
430	67.586	40.634	506	75.167	35.863	582	78.73	31.11	658	79.689	27.04
432	67.879	40.543	508	75.3	35.737	584	78.756	30.978	660	79.637	26.901
434	68.166	40.413	510	75.451	35.645	586	78.8	30.848	662	79.582	26.773
436	68.459	40.319	512	75.584	35.537	588	78.824	30.716	664	79.531	26.625
438	68.756	40.244	514	75.664	35.421	590	78.838	30.579	666	79.491	26.498
440	68.957	40.098	516	75.846	35.321	592	78.859	30.456	668	79.416	26.361
442	69.34	40.093	518	76.062	35.228	594	78.835	30.326	670	79.356	26.239
444	69.561	39.973	520	76.239	35.118	596	78.825	30.22	672	79.292	26.107
446	69.87	39.897	522	76.409	35.003	598	78.826	30.116	674	79.215	25.978
448	70.199	39.816	524	76.551	34.885	600	78.816	30.001	676	79.146	25.836
450	70.455	39.674	526	76.668	34.768	602	78.822	29.89	678	79.083	25.712
452	70.62	39.516	528	76.768	34.645	604	78.814	29.776	680	79.011	25.593
454	70.81	39.394	530	76.926	34.543	606	78.79	29.666	682	78.948	25.47

ผลการวัดค่าการส่งผ่านแสงกระจก ZnO ไม่เติมสารเจือ B₂H₆ ช่วงความยาวคลื่น 380-980 nm. (ต่อ)

Wavelength (nm.)	TT(%)	TD(%)									
684	78.857	25.335	760	79.149	22.321	836	78.855	20.419	912	77.565	18.543
686	78.807	25.219	762	79.019	22.212	838	78.963	20.392	914	77.431	18.49
688	78.764	25.095	764	78.901	22.095	840	79.015	20.359	916	77.341	18.439
690	78.739	25.001	766	78.794	21.987	842	79.091	20.327	918	77.232	18.406
692	78.731	24.91	768	78.637	21.881	844	79.174	20.312	920	77.128	18.371
694	78.739	24.828	770	78.507	21.783	846	79.237	20.286	922	77.05	18.315
696	78.743	24.742	772	78.382	21.682	848	79.303	20.256	924	77.004	18.276
698	78.778	24.669	774	78.251	21.566	850	79.389	20.221	926	76.953	18.246
700	78.81	24.598	776	78.154	21.475	852	79.43	20.188	928	76.912	18.215
702	78.843	24.536	778	78.061	21.387	854	79.452	20.146	930	76.864	18.179
704	78.892	24.466	780	77.951	21.3	856	79.482	20.128	932	76.86	18.147
706	78.965	24.404	782	77.867	21.216	858	79.498	20.072	934	76.885	18.11
708	79.04	24.331	784	77.807	21.143	860	79.536	20.035	936	76.906	18.086
710	79.127	24.285	786	77.718	21.07	862	79.569	19.985	938	76.919	18.052
712	79.208	24.239	788	77.648	21.01	864	79.567	19.922	940	76.988	18.028
714	79.268	24.2	790	77.585	20.945	866	79.534	19.883	942	77.069	18.008
716	79.356	24.161	792	77.562	20.904	868	79.495	19.839	944	77.147	18.017
718	79.454	24.109	794	77.613	20.888	870	79.443	19.777	946	77.208	18.011
720	79.532	24.04	796	77.664	20.881	872	79.422	19.735	948	77.325	17.995
722	79.631	23.989	798	77.719	20.883	874	79.383	19.688	950	77.408	17.972
724	79.712	23.937	800	77.688	20.842	876	79.354	19.63	952	77.523	17.98
726	79.776	23.883	802	77.645	20.791	878	79.3	19.569	954	77.668	17.981
728	79.847	23.823	804	77.635	20.735	880	79.23	19.526	956	77.829	17.983
730	79.893	23.761	806	77.674	20.714	882	79.123	19.46	958	78.005	18.006
732	79.908	23.686	808	77.699	20.69	884	79.057	19.413	960	78.212	18.022
734	79.94	23.611	810	77.753	20.673	886	78.94	19.344	962	78.325	18.03
736	79.96	23.53	812	77.787	20.633	888	78.845	19.279	964	78.5	18.042
738	79.936	23.446	814	77.851	20.61	890	78.79	19.211	966	78.751	18.082
740	79.916	23.357	816	77.948	20.582	892	78.692	19.143	968	78.94	18.13
742	79.888	23.263	818	78.015	20.547	894	78.621	19.106	970	79.156	18.152
744	79.827	23.156	820	78.1	20.525	896	78.512	19.05	972	79.387	18.185
746	79.786	23.068	822	78.205	20.534	898	78.402	18.975	974	79.642	18.214
748	79.727	22.971	824	78.299	20.513	900	78.321	18.902	976	79.884	18.259
750	79.647	22.872	826	78.424	20.502	902	78.174	18.825	978	80.309	18.333
752	79.597	22.758	828	78.497	20.463	904	78.064	18.78	980	79.942	18.258
754	79.513	22.652	830	78.582	20.453	906	77.926	18.731			
756	79.38	22.539	832	78.699	20.457	908	77.822	18.659			
758	79.264	22.435	834	78.774	20.437	910	77.672	18.593			

ผลการวัดค่าการส่องผ่านแสงของกระจก ZnO:B ที่สารเจือ B₂H₆ 5 sccm ช่วงความยาวคลื่น 380-980 nm.

Wavelength (nm.)	TT(%)	TD(%)									
380	0.991	3.405	456	73.852	33.243	532	78.834	27.744	608	80.596	23.634
382	2.32	12.955	458	74.061	33.032	534	78.901	27.601	610	80.576	23.551
384	13.959	21.913	460	74.24	32.87	536	79.064	27.494	612	80.542	23.457
386	43.142	26.788	462	74.457	32.691	538	79.185	27.375	614	80.532	23.371
388	50.725	29.033	464	74.728	32.577	540	79.239	27.258	616	80.526	23.296
390	53.808	31.583	466	74.858	32.433	542	79.325	27.137	618	80.516	23.222
392	55.989	33.243	468	75.011	32.29	544	79.433	27.018	620	80.507	23.14
394	57.682	34.552	470	75.15	32.123	546	79.494	26.916	622	80.545	23.084
396	59.69	35.415	472	75.269	31.948	548	79.57	26.804	624	80.588	23.024
398	61.442	36.107	474	75.408	31.795	550	79.647	26.708	626	80.632	22.95
400	62.867	36.592	476	75.57	31.675	552	79.712	26.577	628	80.71	22.882
402	64.067	36.914	478	75.693	31.562	554	79.727	26.443	630	80.78	22.832
404	65.023	37.092	480	75.847	31.392	556	79.77	26.305	632	80.847	22.782
406	65.93	37.316	482	75.914	31.161	558	79.827	26.22	634	80.945	22.724
408	66.595	37.335	484	76.039	30.939	560	79.825	26.131	636	81.047	22.665
410	67.157	37.256	486	76.202	30.818	562	79.834	26.024	638	81.13	22.599
412	67.746	37.189	488	76.302	30.702	564	79.857	25.858	640	81.222	22.547
414	68.264	37.108	490	76.412	30.573	566	79.9	25.735	642	81.333	22.493
416	68.611	36.958	492	76.564	30.39	568	79.95	25.631	644	81.411	22.427
418	68.935	36.794	494	76.726	30.229	570	80.026	25.529	646	81.466	22.365
420	69.257	36.634	496	76.894	30.094	572	80.1	25.425	648	81.501	22.297
422	69.721	36.437	498	77.053	29.938	574	80.15	25.305	650	81.518	22.22
424	70.135	36.254	500	77.183	29.795	576	80.233	25.198	652	81.511	22.138
426	70.445	35.978	502	77.308	29.7	578	80.303	25.071	654	81.534	22.059
428	70.685	35.807	504	77.45	29.584	580	80.403	24.961	656	81.529	21.966
430	71.135	35.643	506	77.576	29.458	582	80.489	24.857	658	81.507	21.875
432	71.447	35.369	508	77.694	29.331	584	80.527	24.765	660	81.47	21.779
434	71.596	35.135	510	77.809	29.209	586	80.568	24.658	662	81.377	21.674
436	71.829	35.005	512	77.92	29.049	588	80.627	24.562	664	81.291	21.56
438	71.914	34.816	514	78.015	28.894	590	80.675	24.465	666	81.224	21.467
440	72.094	34.593	516	78.155	28.777	592	80.734	24.367	668	81.124	21.346
442	72.389	34.467	518	78.277	28.678	594	80.728	24.258	670	81.03	21.241
444	72.451	34.242	520	78.336	28.546	596	80.742	24.163	672	80.933	21.13
446	72.634	34.065	522	78.397	28.385	598	80.746	24.075	674	80.839	21.031
448	72.87	33.915	524	78.483	28.228	600	80.722	23.977	676	80.75	20.915
450	73.096	33.687	526	78.533	28.091	602	80.703	23.888	678	80.692	20.81
452	73.314	33.533	528	78.593	27.987	604	80.674	23.808	680	80.622	20.707
454	73.578	33.408	530	78.736	27.865	606	80.63	23.725	682	80.554	20.606

ผลการวัดค่าการส่งผ่านแสงของกระจก ZnO:B ที่สารเจือ B₂H₆ 5 sccm ช่วงความยาวคลื่น 380-980 nm.(ต่อ)

Wavelength (nm.)	TT(%)	TD(%)									
684	80.446	20.471	760	79.642	18.221	836	80.501	17.342	912	78.902	16.288
686	80.383	20.351	762	79.52	18.16	838	80.406	17.31	914	78.988	16.31
688	80.322	20.243	764	79.418	18.1	840	80.248	17.23	916	79.103	16.306
690	80.325	20.189	766	79.352	18.044	842	80.105	17.162	918	79.221	16.316
692	80.345	20.117	768	79.276	17.991	844	79.96	17.125	920	79.339	16.321
694	80.388	20.064	770	79.239	17.948	846	79.801	17.093	922	79.443	16.338
696	80.427	20.017	772	79.217	17.897	848	79.635	17.04	924	79.554	16.344
698	80.518	19.97	774	79.195	17.846	850	79.495	16.974	926	79.663	16.357
700	80.6	19.924	776	79.201	17.801	852	79.321	16.884	928	79.79	16.36
702	80.661	19.887	778	79.21	17.756	854	79.191	16.828	930	79.904	16.367
704	80.742	19.853	780	79.219	17.713	856	79.045	16.752	932	80.035	16.372
706	80.838	19.828	782	79.291	17.713	858	78.864	16.697	934	80.158	16.392
708	80.937	19.796	784	79.356	17.72	860	78.724	16.671	936	80.307	16.395
710	81.048	19.764	786	79.416	17.695	862	78.6	16.645	938	80.427	16.392
712	81.158	19.723	788	79.503	17.67	864	78.487	16.586	940	80.556	16.378
714	81.23	19.671	790	79.598	17.659	866	78.356	16.522	942	80.668	16.379
716	81.314	19.635	792	79.699	17.651	868	78.275	16.469	944	80.811	16.375
718	81.391	19.597	794	79.917	17.71	870	78.184	16.422	946	80.919	16.382
720	81.416	19.556	796	80.135	17.784	872	78.142	16.401	948	81.019	16.408
722	81.448	19.519	798	80.318	17.841	874	78.051	16.351	950	81.076	16.426
724	81.472	19.495	800	80.372	17.835	876	77.962	16.324	952	81.166	16.455
726	81.462	19.449	802	80.419	17.821	878	77.923	16.313	954	81.268	16.449
728	81.456	19.387	804	80.511	17.794	880	77.902	16.28	956	81.305	16.472
730	81.437	19.315	806	80.62	17.774	882	77.895	16.258	958	81.347	16.505
732	81.373	19.241	808	80.679	17.742	884	77.907	16.232	960	81.432	16.539
734	81.312	19.174	810	80.773	17.722	886	77.935	16.229	962	81.455	16.537
736	81.242	19.103	812	80.836	17.708	888	77.972	16.22	964	81.5	16.524
738	81.125	19.032	814	80.868	17.706	890	78.03	16.215	966	81.554	16.531
740	81.01	18.959	816	80.902	17.692	892	78.078	16.224	968	81.577	16.55
742	80.887	18.904	818	80.9	17.667	894	78.187	16.224	970	81.55	16.557
744	80.719	18.826	820	80.905	17.641	896	78.263	16.234	972	81.551	16.555
746	80.581	18.75	822	80.911	17.63	898	78.301	16.221	974	81.621	16.569
748	80.454	18.668	824	80.881	17.595	900	78.39	16.234	976	81.673	16.61
750	80.305	18.589	826	80.889	17.558	902	78.439	16.225	978	81.947	16.736
752	80.183	18.515	828	80.842	17.484	904	78.532	16.255	980	81.251	16.544
754	80.048	18.441	830	80.771	17.435	906	78.606	16.263			
756	79.878	18.355	832	80.71	17.405	908	78.718	16.251			
758	79.751	18.288	834	80.59	17.36	910	78.782	16.264			

ผลการวัดค่าการส่งผ่านแสงของกระจก ZnO:B ที่สารเจือ B₂H₆ 10 sccm ช่วงความยาวคลื่น 380-980 nm.

Wavelength (nm.)	TT(%)	TD(%)									
380	0.066	0.925	456	75.863	23.478	532	80.652	19.227	608	84.012	17.268
382	1.176	10.75	458	75.934	23.271	534	80.53	19.136	610	84.111	17.232
384	18.3	19.737	460	75.917	23.075	536	80.504	19.063	612	84.163	17.176
386	48.599	23.166	462	75.919	22.907	538	80.529	18.991	614	84.184	17.123
388	55.757	25.913	464	75.951	22.732	540	80.626	18.928	616	84.163	17.088
390	58.274	26.998	466	75.917	22.579	542	80.809	18.888	618	84.082	17.023
392	60.315	27.568	468	76.059	22.463	544	81.007	18.891	620	83.952	16.952
394	62.014	27.905	470	76.301	22.385	546	81.215	18.85	622	83.801	16.859
396	63.141	28.053	472	76.587	22.304	548	81.471	18.821	624	83.638	16.78
398	64.077	28.174	474	76.964	22.237	550	81.792	18.782	626	83.443	16.69
400	65.024	28.321	476	77.379	22.171	552	82.128	18.769	628	83.243	16.61
402	66.091	28.411	478	77.723	22.075	554	82.404	18.717	630	83.034	16.538
404	67.123	28.45	480	78.056	21.965	556	82.652	18.666	632	82.83	16.476
406	68.121	28.506	482	78.252	21.847	558	82.863	18.629	634	82.694	16.414
408	68.801	28.416	484	78.434	21.715	560	82.943	18.558	636	82.562	16.358
410	69.212	28.186	486	78.562	21.576	562	82.978	18.469	638	82.446	16.308
412	69.513	27.94	488	78.53	21.399	564	82.952	18.347	640	82.365	16.268
414	69.681	27.683	490	78.502	21.231	566	82.918	18.235	642	82.35	16.247
416	69.759	27.457	492	78.45	21.051	568	82.811	18.106	644	82.363	16.224
418	69.931	27.269	494	78.348	20.893	570	82.693	17.987	646	82.426	16.213
420	70.362	27.113	496	78.294	20.772	572	82.556	17.87	648	82.526	16.195
422	70.998	26.755	498	78.354	20.7	574	82.379	17.741	650	82.649	16.184
424	71.766	26.308	500	78.433	20.614	576	82.232	17.633	652	82.777	16.178
426	72.364	25.957	502	78.586	20.547	578	82.094	17.522	654	82.978	16.195
428	72.665	25.851	504	78.862	20.498	580	82.012	17.438	656	83.178	16.192
430	73.077	25.748	506	79.189	20.449	582	81.965	17.379	658	83.388	16.179
432	73.175	25.474	508	79.517	20.406	584	81.926	17.323	660	83.607	16.178
434	73.105	25.172	510	79.866	20.381	586	81.954	17.288	662	83.82	16.186
436	73.037	24.944	512	80.226	20.358	588	82.025	17.264	664	84.018	16.185
438	73.042	24.718	514	80.489	20.29	590	82.153	17.254	666	84.257	16.172
440	73.083	24.514	516	80.745	20.227	592	82.337	17.254	668	84.422	16.15
442	73.394	24.394	518	80.96	20.134	594	82.525	17.254	670	84.566	16.125
444	73.624	24.221	520	81.033	19.991	596	82.754	17.27	672	84.675	16.084
446	74.001	24.124	522	81.072	19.86	598	82.99	17.266	674	84.759	16.052
448	74.483	24.083	524	81.053	19.76	600	83.225	17.272	676	84.802	16.012
450	74.95	23.952	526	80.959	19.652	602	83.474	17.275	678	84.826	15.956
452	75.358	23.788	528	80.821	19.507	604	83.696	17.281	680	84.772	15.887
454	75.679	23.648	530	80.749	19.365	606	83.869	17.278	682	84.704	15.805

ผลการวัดค่าการส่งผ่านแสงของกระจก ZnO:B ที่สารเจือ B₂H₆ 10 sccm ช่วงความยาวคลื่น 380-980 nm.(ต่อ)

Wavelength (nm.)	TT(%)	TD(%)									
684	84.531	15.704	760	83.998	14.797	836	81.279	14.217	912	78.182	13.448
686	84.349	15.617	762	83.91	14.754	838	81.439	14.255	914	77.967	13.429
688	84.125	15.536	764	83.806	14.716	840	81.548	14.264	916	77.806	13.412
690	83.935	15.452	766	83.686	14.675	842	81.686	14.283	918	77.633	13.406
692	83.711	15.37	768	83.528	14.619	844	81.835	14.298	920	77.476	13.4
694	83.489	15.295	770	83.377	14.569	846	81.94	14.343	922	77.333	13.377
696	83.242	15.227	772	83.185	14.509	848	82.056	14.347	924	77.231	13.371
698	83.033	15.165	774	82.955	14.448	850	82.206	14.338	926	77.14	13.371
700	82.809	15.105	776	82.745	14.382	852	82.299	14.343	928	77.091	13.361
702	82.586	15.043	778	82.516	14.331	854	82.374	14.343	930	77.052	13.354
704	82.4	14.986	780	82.268	14.287	856	82.448	14.346	932	77.056	13.363
706	82.23	14.931	782	82.041	14.25	858	82.45	14.335	934	77.076	13.38
708	82.076	14.89	784	81.829	14.212	860	82.477	14.33	936	77.106	13.376
710	81.969	14.872	786	81.59	14.161	862	82.49	14.291	938	77.152	13.371
712	81.882	14.84	788	81.376	14.115	864	82.476	14.265	940	77.252	13.379
714	81.801	14.815	790	81.141	14.068	866	82.396	14.262	942	77.39	13.381
716	81.781	14.799	792	80.963	14.051	868	82.333	14.28	944	77.557	13.395
718	81.791	14.796	794	80.893	14.074	870	82.247	14.248	946	77.701	13.426
720	81.814	14.777	796	80.826	14.105	872	82.196	14.221	948	77.886	13.441
722	81.882	14.769	798	80.743	14.125	874	82.09	14.194	950	78.049	13.454
724	81.98	14.782	800	80.565	14.093	876	81.949	14.153	952	78.254	13.477
726	82.085	14.802	802	80.399	14.083	878	81.789	14.111	954	78.488	13.527
728	82.237	14.823	804	80.28	14.075	880	81.62	14.064	956	78.737	13.57
730	82.395	14.837	806	80.204	14.056	882	81.41	14	958	78.993	13.59
732	82.543	14.841	808	80.104	14.033	884	81.23	13.941	960	79.293	13.633
734	82.717	14.856	810	80.082	14.035	886	81.053	13.89	962	79.545	13.686
736	82.897	14.879	812	80.067	14.033	888	80.879	13.864	964	79.809	13.715
738	83.069	14.898	814	80.077	14.041	890	80.699	13.835	966	80.112	13.764
740	83.25	14.91	816	80.125	14.064	892	80.472	13.806	968	80.414	13.798
742	83.431	14.914	818	80.162	14.061	894	80.284	13.781	970	80.728	13.825
744	83.56	14.91	820	80.226	14.068	896	80.048	13.775	972	81.053	13.86
746	83.723	14.909	822	80.343	14.091	898	79.786	13.761	974	81.382	13.926
748	83.853	14.904	824	80.436	14.126	900	79.563	13.718	976	81.741	13.974
750	83.939	14.893	826	80.571	14.157	902	79.291	13.643	978	82.448	14.037
752	84.015	14.872	828	80.713	14.17	904	79.066	13.609	980	81.912	13.974
754	84.053	14.846	830	80.845	14.179	906	78.827	13.585			
756	84.036	14.829	832	81.012	14.193	908	78.619	13.544			
758	84.032	14.821	834	81.119	14.204	910	78.378	13.489			

ผลการวัดค่าการส่งผ่านแสงของกระจก ZnO:B ที่สารเจือ B₂H₆ 15 sccm ช่วงความยาวคลื่น 380-980 nm.

Wavelength (nm.)	TT(%)	TD(%)									
380	0.985	0.235	456	78.026	21.456	532	82.912	19.043	608	81.895	16.813
382	2.69	0.95	458	78.298	21.391	534	83.029	18.993	610	81.961	16.815
384	25.502	9.58	460	78.655	21.35	536	83.107	18.913	612	82.065	16.824
386	55.311	17.573	462	78.924	21.269	538	83.07	18.807	614	82.237	16.846
388	69.053	22.33	464	79.141	21.166	540	82.966	18.685	616	82.465	16.878
390	66.529	25.603	466	79.207	21.052	542	82.812	18.569	618	82.713	16.907
392	67.755	25.818	468	79.331	21.004	544	82.611	18.429	620	82.961	16.937
394	69.055	25.991	470	79.351	20.924	546	82.378	18.316	622	83.225	16.963
396	70.117	26.089	472	79.26	20.804	548	82.178	18.202	624	83.488	16.986
398	71.107	26.162	474	79.202	20.699	550	82.033	18.103	626	83.736	16.995
400	71.864	26.155	476	79.141	20.588	552	81.922	18.013	628	83.962	17.002
402	72.426	26.097	478	79.145	20.487	554	81.807	17.961	630	84.135	16.991
404	72.765	25.957	480	79.262	20.395	556	81.784	17.883	632	84.242	16.964
406	73.116	25.8	482	79.386	20.303	558	81.871	17.883	634	84.32	16.931
408	73.361	25.588	484	79.601	20.231	560	82.004	17.908	636	84.344	16.889
410	73.64	25.413	486	79.927	20.24	562	82.197	17.968	638	84.281	16.817
412	74.065	25.356	488	80.233	20.242	564	82.409	17.976	640	84.146	16.732
414	74.501	25.33	490	80.572	20.252	566	82.679	17.97	642	83.983	16.649
416	74.778	25.244	492	80.892	20.251	568	82.95	17.969	644	83.766	16.553
418	75.081	25.226	494	81.112	20.196	570	83.238	17.946	646	83.535	16.448
420	75.16	24.956	496	81.287	20.115	572	83.508	17.926	648	83.262	16.351
422	75.114	24.172	498	81.408	20.019	574	83.732	17.897	650	82.952	16.259
424	75.057	23.276	500	81.379	19.924	576	83.929	17.868	652	82.616	16.156
426	74.996	22.707	502	81.281	19.825	578	84.032	17.809	654	82.332	16.057
428	75.04	22.7	504	81.178	19.713	580	84.116	17.746	656	82.045	15.957
430	75.445	22.632	506	81.028	19.584	582	84.111	17.661	658	81.762	15.848
432	75.727	22.581	508	80.866	19.478	584	84.006	17.558	660	81.527	15.766
434	75.973	22.473	510	80.786	19.357	586	83.85	17.448	662	81.316	15.695
436	76.295	22.475	512	80.716	19.278	588	83.656	17.336	664	81.14	15.647
438	76.646	22.351	514	80.663	19.191	590	83.43	17.235	666	81.04	15.609
440	76.821	22.246	516	80.787	19.148	592	83.206	17.145	668	80.945	15.568
442	77.02	22.14	518	80.993	19.125	594	82.921	17.059	670	80.926	15.518
444	76.943	21.995	520	81.212	19.098	596	82.657	16.985	672	80.935	15.481
446	76.984	21.868	522	81.506	19.071	598	82.415	16.928	674	81.007	15.471
448	77.132	21.775	524	81.859	19.055	600	82.208	16.884	676	81.133	15.475
450	77.263	21.706	526	82.188	19.054	602	82.072	16.847	678	81.327	15.492
452	77.436	21.594	528	82.429	19.061	604	81.965	16.822	680	81.506	15.495
454	77.717	21.519	530	82.719	19.059	606	81.897	16.815	682	81.721	15.515

ผลการวัดค่าการส่งผ่านแสงของกระจก ZnO:B ที่สารเจือ B₂H₆ 15 sccm ช่วงความยาวคลื่น 380-980 nm.(ต่อ)

Wavelength (nm.)	TT(%)	TD(%)									
684	81.919	15.538	760	79.289	14.217	836	76.447	13.343	912	78.295	13.63
686	82.187	15.557	762	79.441	14.235	838	76.292	13.329	914	78.118	13.61
688	82.418	15.578	764	79.623	14.262	840	76.132	13.299	916	77.96	13.592
690	82.659	15.603	766	79.821	14.289	842	76.041	13.285	918	77.754	13.577
692	82.891	15.612	768	79.992	14.322	844	75.954	13.269	920	77.553	13.552
694	83.12	15.621	770	80.203	14.355	846	75.857	13.261	922	77.326	13.52
696	83.3	15.622	772	80.427	14.381	848	75.787	13.254	924	77.092	13.478
698	83.456	15.622	774	80.626	14.403	850	75.811	13.256	926	76.866	13.43
700	83.559	15.603	776	80.837	14.428	852	75.84	13.245	928	76.653	13.392
702	83.613	15.582	778	81.009	14.442	854	75.9	13.253	930	76.415	13.345
704	83.632	15.541	780	81.144	14.451	856	75.964	13.268	932	76.206	13.292
706	83.605	15.498	782	81.286	14.466	858	76.026	13.279	934	75.996	13.235
708	83.518	15.441	784	81.409	14.465	860	76.137	13.305	936	75.779	13.184
710	83.408	15.38	786	81.467	14.456	862	76.276	13.342	938	75.549	13.114
712	83.25	15.318	788	81.511	14.453	864	76.402	13.374	940	75.364	13.07
714	83.028	15.246	790	81.528	14.423	866	76.515	13.4	942	75.188	13.018
716	82.786	15.172	792	81.507	14.402	868	76.661	13.425	944	75.032	12.968
718	82.516	15.098	794	81.501	14.374	870	76.805	13.47	946	74.849	12.918
720	82.194	15.014	796	81.456	14.361	872	77.025	13.49	948	74.747	12.879
722	81.881	14.927	798	81.378	14.341	874	77.206	13.51	950	74.604	12.843
724	81.564	14.842	800	81.181	14.334	876	77.369	13.531	952	74.475	12.815
726	81.228	14.761	802	80.957	14.268	878	77.53	13.563	954	74.384	12.823
728	80.916	14.679	804	80.742	14.211	880	77.698	13.579	956	74.312	12.807
730	80.604	14.596	806	80.51	14.155	882	77.841	13.586	958	74.249	12.801
732	80.287	14.518	808	80.229	14.096	884	78.014	13.61	960	74.237	12.802
734	80.021	14.452	810	79.966	14.03	886	78.156	13.646	962	74.194	12.776
736	79.77	14.399	812	79.675	13.949	888	78.319	13.671	964	74.19	12.758
738	79.519	14.342	814	79.371	13.892	890	78.479	13.692	966	74.24	12.766
740	79.319	14.292	816	79.08	13.832	892	78.547	13.694	968	74.274	12.774
742	79.151	14.253	818	78.736	13.776	894	78.63	13.724	970	74.332	12.824
744	78.993	14.212	820	78.43	13.725	896	78.693	13.75	972	74.407	12.866
746	78.924	14.196	822	78.14	13.678	898	78.719	13.768	974	74.53	12.918
748	78.878	14.179	824	77.855	13.596	900	78.772	13.743	976	74.7	12.934
750	78.849	14.173	826	77.606	13.54	902	78.711	13.729	978	75.159	13.036
752	78.883	14.174	828	77.345	13.52	904	78.676	13.719	980	74.649	12.976
754	78.947	14.182	830	77.086	13.486	906	78.602	13.699			
756	79.01	14.18	832	76.867	13.42	908	78.536	13.675			
758	79.138	14.19	834	76.635	13.371	910	78.394	13.653			

ผลการวัดค่าการส่งผ่านแสงของกระจก ZnO:B ที่สารเจือ B₂H₆ 20 sccm ช่วงความยาวคลื่น 380-980 nm.

Wavelength (nm.)	TT(%)	TD(%)									
380	9.597	10.315	456	80.603	20.872	532	84.469	18.636	608	82.036	16.388
382	7.698	6.028	458	80.874	20.829	534	84.407	18.579	610	82.182	16.418
384	30.82	13.534	460	81.134	20.775	536	84.332	18.502	612	82.395	16.443
386	63.544	23.355	462	81.309	20.71	538	84.118	18.422	614	82.681	16.473
388	75.896	24.895	464	81.404	20.572	540	83.795	18.287	616	83.019	16.516
390	70.857	25.24	466	81.296	20.42	542	83.456	18.171	618	83.369	16.568
392	72.025	25.304	468	81.159	20.32	544	83.122	18.025	620	83.715	16.622
394	73.101	25.42	470	81.012	20.236	546	82.809	17.89	622	84.066	16.679
396	73.763	25.389	472	80.829	20.118	548	82.591	17.775	624	84.387	16.717
398	74.376	25.292	474	80.762	19.968	550	82.425	17.702	626	84.674	16.746
400	74.915	25.166	476	80.776	19.879	552	82.352	17.617	628	84.916	16.775
402	75.392	25.061	478	80.873	19.83	554	82.322	17.529	630	85.106	16.785
404	75.793	24.958	480	81.109	19.784	556	82.414	17.43	632	85.189	16.776
406	76.337	24.865	482	81.359	19.732	558	82.614	17.457	634	85.197	16.75
408	76.726	24.685	484	81.757	19.723	560	82.843	17.519	636	85.139	16.706
410	77.03	24.534	486	82.2	19.754	562	83.168	17.579	638	84.984	16.646
412	77.352	24.406	488	82.538	19.787	564	83.488	17.597	640	84.771	16.568
414	77.55	24.272	490	82.813	19.795	566	83.876	17.61	642	84.508	16.496
416	77.551	24.083	492	83.005	19.773	568	84.231	17.62	644	84.187	16.398
418	77.58	23.959	494	83.059	19.669	570	84.566	17.614	646	83.814	16.288
420	77.651	23.787	496	83.077	19.598	572	84.864	17.595	648	83.425	16.184
422	77.651	23.341	498	82.981	19.522	574	85.056	17.566	650	83.021	16.074
424	77.727	22.684	500	82.739	19.393	576	85.204	17.532	652	82.595	15.955
426	77.777	22.144	502	82.462	19.243	578	85.21	17.479	654	82.215	15.838
428	77.914	21.984	504	82.254	19.093	580	85.174	17.417	656	81.841	15.723
430	78.32	22.047	506	82.025	18.969	582	85.042	17.333	658	81.485	15.625
432	78.62	22.04	508	81.852	18.875	584	84.807	17.215	660	81.199	15.534
434	78.9	21.887	510	81.782	18.829	586	84.507	17.084	662	80.962	15.454
436	79.049	21.776	512	81.816	18.73	588	84.154	16.955	664	80.792	15.379
438	79.148	21.598	514	81.881	18.642	590	83.772	16.846	666	80.704	15.339
440	79.108	21.507	516	82.141	18.591	592	83.417	16.744	668	80.64	15.301
442	79.188	21.446	518	82.49	18.617	594	83.027	16.635	670	80.655	15.271
444	79.039	21.302	520	82.867	18.644	596	82.695	16.55	672	80.73	15.251
446	79.077	21.191	522	83.263	18.699	598	82.404	16.496	674	80.872	15.24
448	79.265	21.094	524	83.658	18.722	600	82.165	16.445	676	81.069	15.259
450	79.461	21.015	526	83.974	18.73	602	82.022	16.405	678	81.33	15.274
452	79.796	20.934	528	84.205	18.717	604	81.957	16.37	680	81.582	15.296
454	80.216	20.896	530	84.417	18.701	606	81.958	16.365	682	81.89	15.313

ผลการวัดค่าการส่องผ่านแสงของกระจก ZnO:B ที่สารเจือ B₂H₆ 20 sccm ช่วงความยาวคลื่น 380-980 nm.(ต่อ)

Wavelength (nm.)	TT(%)	TD(%)									
684	82.16	15.33	760	79.046	14.079	836	76.131	13.497	912	77.763	13.707
686	82.482	15.348	762	79.238	14.099	838	75.975	13.461	914	77.572	13.681
688	82.766	15.377	764	79.474	14.132	840	75.792	13.444	916	77.405	13.661
690	83.078	15.398	766	79.736	14.176	842	75.674	13.417	918	77.201	13.641
692	83.353	15.429	768	79.97	14.205	844	75.582	13.375	920	76.986	13.614
694	83.612	15.466	770	80.219	14.243	846	75.505	13.345	922	76.742	13.57
696	83.818	15.483	772	80.458	14.284	848	75.486	13.345	924	76.511	13.514
698	84.005	15.487	774	80.69	14.317	850	75.53	13.348	926	76.27	13.474
700	84.113	15.484	776	80.912	14.344	852	75.551	13.336	928	76.036	13.44
702	84.139	15.472	778	81.103	14.363	854	75.577	13.323	930	75.798	13.387
704	84.137	15.444	780	81.263	14.38	856	75.669	13.353	932	75.586	13.331
706	84.078	15.403	782	81.429	14.415	858	75.758	13.373	934	75.372	13.272
708	83.95	15.357	784	81.569	14.441	860	75.876	13.398	936	75.168	13.232
710	83.776	15.319	786	81.635	14.443	862	76.005	13.423	938	74.95	13.188
712	83.545	15.255	788	81.666	14.43	864	76.153	13.439	940	74.754	13.132
714	83.25	15.182	790	81.646	14.414	866	76.294	13.452	942	74.571	13.077
716	82.939	15.102	792	81.612	14.441	868	76.449	13.486	944	74.421	13.031
718	82.599	15.034	794	81.598	14.493	870	76.575	13.516	946	74.258	13.004
720	82.203	14.952	796	81.537	14.533	872	76.764	13.522	948	74.155	12.98
722	81.822	14.876	798	81.439	14.553	874	76.952	13.543	950	74.016	12.941
724	81.437	14.784	800	81.249	14.492	876	77.14	13.548	952	73.897	12.906
726	81.043	14.691	802	80.996	14.454	878	77.3	13.593	954	73.793	12.874
728	80.668	14.6	804	80.746	14.415	880	77.443	13.628	956	73.721	12.853
730	80.31	14.515	806	80.482	14.359	882	77.573	13.647	958	73.712	12.856
732	79.951	14.425	808	80.143	14.264	884	77.731	13.679	960	73.718	12.862
734	79.638	14.35	810	79.85	14.198	886	77.844	13.708	962	73.636	12.835
736	79.352	14.284	812	79.539	14.153	888	78.013	13.734	964	73.609	12.815
738	79.078	14.221	814	79.214	14.083	890	78.163	13.737	966	73.646	12.82
740	78.865	14.159	816	78.873	14.014	892	78.221	13.725	968	73.648	12.823
742	78.698	14.111	818	78.509	13.954	894	78.282	13.772	970	73.681	12.8
744	78.55	14.063	820	78.192	13.897	896	78.319	13.821	972	73.778	12.774
746	78.484	14.045	822	77.886	13.838	898	78.322	13.832	974	73.887	12.777
748	78.449	14.036	824	77.587	13.776	900	78.327	13.807	976	74.04	12.809
750	78.446	14.029	826	77.339	13.723	902	78.229	13.779	978	74.409	12.864
752	78.514	14.032	828	77.054	13.656	904	78.184	13.769	980	73.963	12.797
754	78.615	14.032	830	76.775	13.603	906	78.107	13.761			
756	78.712	14.039	832	76.541	13.577	908	78.046	13.752			
758	78.865	14.061	834	76.304	13.538	910	77.899	13.73			

ผลการวัดค่าการส่งผ่านแสงของกระจก ZnO:B ที่อุณหภูมิ 100°C ช่วงความยาวคลื่น 380-980 nm.

Wavelength (nm.)	TT(%)	TD(%)									
380	14.201	5.436	456	84.396	16.864	532	90.451	16.753	608	86.914	15.401
382	34.608	11.598	458	85.342	17.009	534	90.659	16.73	610	87.407	15.495
384	45.338	13.974	460	86.26	17.172	536	90.843	16.689	612	87.878	15.58
386	52.595	14.651	462	87.081	17.304	538	90.857	16.63	614	88.345	15.663
388	60.44	15.705	464	87.871	17.397	540	90.77	16.586	616	88.782	15.741
390	65.992	17.131	466	88.371	17.397	542	90.606	16.538	618	89.178	15.799
392	70.196	17.921	468	88.749	17.351	544	90.329	16.447	620	89.514	15.839
394	73.246	18.465	470	88.888	17.29	546	89.95	16.314	622	89.836	15.871
396	74.969	18.588	472	88.776	17.199	548	89.535	16.169	624	90.122	15.896
398	75.861	18.571	474	88.555	17.082	550	89.055	16.025	626	90.345	15.914
400	76.205	18.452	476	88.183	16.924	552	88.543	15.871	628	90.526	15.922
402	76.418	18.431	478	87.667	16.77	554	87.976	15.749	630	90.663	15.927
404	76.627	18.429	480	87.068	16.603	556	87.417	15.594	632	90.714	15.918
406	77.142	18.504	482	86.318	16.427	558	86.811	15.481	634	90.73	15.896
408	77.905	18.654	484	85.668	16.28	560	86.179	15.37	636	90.713	15.862
410	78.804	18.769	486	85.023	16.142	562	85.581	15.274	638	90.609	15.819
412	80.031	18.994	488	84.333	15.973	564	85.038	15.141	640	90.447	15.76
414	81.309	19.264	490	83.763	15.83	566	84.551	15.02	642	90.265	15.686
416	82.567	19.503	492	83.284	15.687	568	84.103	14.913	644	90.009	15.597
418	83.693	19.713	494	82.878	15.6	570	83.727	14.828	646	89.716	15.53
420	84.796	19.689	496	82.603	15.553	572	83.383	14.748	648	89.384	15.441
422	85.574	19.152	498	82.458	15.541	574	83.074	14.677	650	89.038	15.36
424	86.013	18.473	500	82.371	15.53	576	82.892	14.629	652	88.628	15.263
426	85.855	17.934	502	82.439	15.547	578	82.742	14.584	654	88.239	15.166
428	85.289	17.773	504	82.661	15.604	580	82.702	14.539	656	87.828	15.052
430	84.787	17.49	506	82.956	15.635	582	82.698	14.522	658	87.388	14.943
432	83.991	17.184	508	83.336	15.714	584	82.73	14.512	660	86.943	14.835
434	83.042	16.994	510	83.854	15.83	586	82.833	14.526	662	86.496	14.738
436	82.217	16.793	512	84.435	15.968	588	83.007	14.547	664	86.048	14.647
438	81.57	16.545	514	85.026	16.066	590	83.234	14.603	666	85.639	14.567
440	81.039	16.324	516	85.725	16.163	592	83.537	14.666	668	85.187	14.469
442	80.944	16.26	518	86.476	16.288	594	83.84	14.74	670	84.77	14.385
444	80.76	16.213	520	87.148	16.386	596	84.207	14.815	672	84.368	14.308
446	80.929	16.249	522	87.812	16.495	598	84.613	14.905	674	83.97	14.23
448	81.328	16.345	524	88.495	16.574	600	85.044	14.993	676	83.594	14.155
450	81.85	16.442	526	89.101	16.667	602	85.511	15.101	678	83.251	14.095
452	82.546	16.558	528	89.589	16.707	604	85.982	15.204	680	82.907	14.043
454	83.43	16.702	530	90.077	16.751	606	86.443	15.306	682	82.596	13.976

ผลการวัดค่าการส่งผ่านแสงของกระจก ZnO:B ที่อุณหภูมิ 100°C ช่วงความยาวคลื่น 380-980 nm.(ต่อ)

Wavelength (nm.)	TT(%)	TD(%)									
684	82.251	13.883	760	87.129	14.638	836	82.068	13.709	912	77.862	13.313
686	81.976	13.803	762	87.291	14.649	838	81.791	13.675	914	77.902	13.334
688	81.707	13.744	764	87.464	14.667	840	81.452	13.637	916	77.977	13.357
690	81.502	13.705	766	87.641	14.69	842	81.189	13.6	918	78.058	13.363
692	81.321	13.666	768	87.74	14.699	844	80.912	13.571	920	78.151	13.388
694	81.191	13.637	770	87.851	14.703	846	80.645	13.547	922	78.232	13.418
696	81.064	13.62	772	87.943	14.704	848	80.403	13.52	924	78.331	13.456
698	80.992	13.611	774	88	14.698	850	80.22	13.474	926	78.444	13.487
700	80.94	13.597	776	88.044	14.687	852	80.001	13.448	928	78.588	13.516
702	80.897	13.59	778	88.065	14.671	854	79.797	13.405	930	78.732	13.546
704	80.897	13.584	780	88.062	14.673	856	79.587	13.391	932	78.906	13.571
706	80.924	13.592	782	88.047	14.681	858	79.344	13.344	934	79.084	13.607
708	80.979	13.606	784	88.009	14.681	860	79.152	13.322	936	79.267	13.635
710	81.069	13.624	786	87.918	14.656	862	78.983	13.294	938	79.425	13.653
712	81.178	13.652	788	87.817	14.624	864	78.802	13.299	940	79.609	13.669
714	81.302	13.678	790	87.724	14.577	866	78.629	13.268	942	79.802	13.717
716	81.472	13.708	792	87.61	14.558	868	78.52	13.257	944	80.016	13.777
718	81.659	13.737	794	87.525	14.596	870	78.377	13.24	946	80.193	13.811
720	81.835	13.77	796	87.407	14.645	872	78.297	13.224	948	80.435	13.837
722	82.061	13.807	798	87.296	14.667	874	78.161	13.21	950	80.616	13.861
724	82.311	13.856	800	87.067	14.631	876	78.052	13.201	952	80.828	13.91
726	82.549	13.901	802	86.833	14.578	878	77.959	13.198	954	81.039	13.968
728	82.818	13.937	804	86.614	14.513	880	77.861	13.186	956	81.257	14.02
730	83.105	13.988	806	86.379	14.477	882	77.771	13.162	958	81.468	14.087
732	83.373	14.033	808	86.093	14.424	884	77.713	13.129	960	81.729	14.157
734	83.663	14.091	810	85.846	14.364	886	77.63	13.117	962	81.894	14.188
736	83.954	14.143	812	85.561	14.32	888	77.614	13.114	964	82.062	14.252
738	84.238	14.192	814	85.268	14.273	890	77.649	13.123	966	82.277	14.317
740	84.536	14.243	816	84.999	14.239	892	77.622	13.129	968	82.5	14.372
742	84.84	14.292	818	84.657	14.179	894	77.638	13.188	970	82.736	14.428
744	85.103	14.327	820	84.336	14.124	896	77.653	13.205	972	82.918	14.495
746	85.41	14.38	822	84.053	14.069	898	77.641	13.239	974	83.115	14.574
748	85.695	14.426	824	83.782	14.015	900	77.655	13.264	976	83.35	14.687
750	85.953	14.464	826	83.519	13.982	902	77.643	13.247	978	83.688	14.797
752	86.247	14.504	828	83.213	13.921	904	77.678	13.241	980	83.568	14.747
754	86.498	14.541	830	82.904	13.875	906	77.68	13.25			
756	86.706	14.578	832	82.645	13.827	908	77.733	13.268			
758	86.93	14.61	834	82.357	13.765	910	77.776	13.284			

ผลการวัดค่าการส่งผ่านแสงของกระจก ZnO:B ที่อุณหภูมิ 150°C ช่วงความยาวคลื่น 380-980 nm.

Wavelength (nm.)	TT(%)	TD(%)									
380	54.886	-5.691	456	82.875	17.463	532	89.001	17.039	608	86.045	15.669
382	57.473	-5.168	458	83.568	17.6	534	89.289	17.041	610	86.488	15.748
384	59.001	5.229	460	84.306	17.642	536	89.58	17.07	612	86.907	15.824
386	62.212	14.263	462	85.039	17.725	538	89.746	17.083	614	87.321	15.893
388	64.35	18.741	464	85.79	17.758	540	89.825	17.025	616	87.739	15.967
390	68.634	19.07	466	86.342	17.825	542	89.801	16.947	618	88.129	16.021
392	71.706	19.597	468	86.806	17.866	544	89.691	16.875	620	88.482	16.065
394	74.079	19.94	470	87.145	17.895	546	89.487	16.8	622	88.829	16.096
396	75.503	20.03	472	87.248	17.839	548	89.241	16.708	624	89.14	16.122
398	76.305	20.047	474	87.294	17.753	550	88.91	16.598	626	89.389	16.136
400	76.769	19.98	476	87.192	17.641	552	88.537	16.485	628	89.611	16.161
402	77.024	19.918	478	86.919	17.511	554	88.087	16.355	630	89.799	16.181
404	77.187	19.845	480	86.548	17.379	556	87.661	16.227	632	89.915	16.174
406	77.552	19.834	482	86.104	17.199	558	87.182	16.143	634	90.01	16.165
408	77.988	19.828	484	85.662	17.033	560	86.656	16.047	636	90.038	16.146
410	78.526	19.873	486	85.207	16.921	562	86.118	15.936	638	90.011	16.111
412	79.298	20.003	488	84.642	16.79	564	85.601	15.791	640	89.948	16.061
414	80.109	20.119	490	84.129	16.668	566	85.156	15.671	642	89.864	16.022
416	80.994	20.185	492	83.659	16.523	568	84.712	15.562	644	89.695	15.969
418	81.9	20.259	494	83.226	16.4	570	84.333	15.458	646	89.492	15.907
420	82.803	20.213	496	82.917	16.325	572	83.976	15.348	648	89.258	15.831
422	83.504	19.715	498	82.705	16.275	574	83.639	15.238	650	89.003	15.744
424	83.982	19.161	500	82.527	16.243	576	83.388	15.157	652	88.688	15.648
426	84.102	18.649	502	82.461	16.216	578	83.169	15.103	654	88.371	15.563
428	83.871	18.56	504	82.552	16.212	580	83.047	15.062	656	88.025	15.486
430	83.706	18.363	506	82.685	16.228	582	82.961	15.017	658	87.641	15.405
432	83.183	18.129	508	82.924	16.277	584	82.906	14.988	660	87.269	15.308
434	82.619	17.888	510	83.264	16.36	586	82.926	14.979	662	86.881	15.215
436	82.037	17.704	512	83.703	16.441	588	83.006	14.987	664	86.472	15.116
438	81.497	17.575	514	84.099	16.511	590	83.139	15.001	666	86.089	15.019
440	81.004	17.394	516	84.638	16.561	592	83.341	15.047	668	85.676	14.928
442	80.889	17.332	518	85.226	16.647	594	83.551	15.1	670	85.288	14.858
444	80.658	17.211	520	85.825	16.735	596	83.825	15.166	672	84.888	14.771
446	80.667	17.203	522	86.416	16.804	598	84.144	15.24	674	84.501	14.677
448	80.873	17.228	524	87.027	16.868	600	84.483	15.315	676	84.136	14.595
450	81.199	17.271	526	87.593	16.952	602	84.876	15.395	678	83.814	14.52
452	81.613	17.283	528	88.082	17	604	85.252	15.484	680	83.462	14.434
454	82.181	17.358	530	88.6	17.033	606	85.63	15.574	682	83.154	14.361

ผลการวัดค่าการส่งผ่านแสงของกระจก ZnO:B ที่อุณหภูมิ 150°C ช่วงความยาวคลื่น 380-980 nm.(ต่อ)

Wavelength (nm.)	TT(%)	TD(%)									
684	82.785	14.281	760	86.549	14.732	836	82.399	13.948	912	78.229	13.417
686	82.496	14.21	762	86.733	14.755	838	82.142	13.908	914	78.254	13.43
688	82.198	14.139	764	86.915	14.78	840	81.832	13.852	916	78.303	13.457
690	81.972	14.102	766	87.095	14.81	842	81.565	13.812	918	78.37	13.478
692	81.76	14.056	768	87.221	14.831	844	81.337	13.757	920	78.458	13.485
694	81.601	14.027	770	87.363	14.84	846	81.084	13.738	922	78.541	13.501
696	81.455	13.992	772	87.478	14.844	848	80.842	13.684	924	78.648	13.523
698	81.343	13.961	774	87.542	14.842	850	80.639	13.627	926	78.765	13.554
700	81.241	13.938	776	87.608	14.847	852	80.394	13.572	928	78.899	13.587
702	81.166	13.913	778	87.646	14.842	854	80.186	13.545	930	79.028	13.613
704	81.125	13.908	780	87.668	14.826	856	80.002	13.542	932	79.215	13.64
706	81.114	13.901	782	87.686	14.815	858	79.781	13.541	934	79.396	13.657
708	81.114	13.905	784	87.684	14.803	860	79.589	13.524	936	79.571	13.677
710	81.166	13.911	786	87.62	14.779	862	79.439	13.494	938	79.715	13.698
712	81.24	13.922	788	87.558	14.756	864	79.285	13.464	940	79.911	13.73
714	81.317	13.941	790	87.475	14.738	866	79.119	13.42	942	80.132	13.763
716	81.441	13.96	792	87.386	14.733	868	78.963	13.38	944	80.396	13.797
718	81.586	13.982	794	87.354	14.771	870	78.805	13.343	946	80.612	13.823
720	81.723	13.998	796	87.29	14.814	872	78.723	13.328	948	80.859	13.888
722	81.894	14.027	798	87.223	14.835	874	78.628	13.317	950	81.087	13.93
724	82.094	14.052	800	87.05	14.799	876	78.506	13.306	952	81.353	13.973
726	82.299	14.094	802	86.815	14.763	878	78.365	13.302	954	81.624	14.001
728	82.531	14.139	804	86.593	14.722	880	78.276	13.328	956	81.86	14.043
730	82.766	14.185	806	86.385	14.669	882	78.185	13.303	958	82.097	14.067
732	82.995	14.221	808	86.152	14.623	884	78.166	13.293	960	82.4	14.115
734	83.259	14.263	810	85.932	14.557	886	78.112	13.287	962	82.628	14.146
736	83.517	14.293	812	85.652	14.496	888	78.106	13.279	964	82.873	14.209
738	83.763	14.332	814	85.383	14.444	890	78.095	13.278	966	83.162	14.283
740	84.045	14.371	816	85.141	14.401	892	78.071	13.291	968	83.437	14.319
742	84.327	14.416	818	84.846	14.368	894	78.09	13.311	970	83.711	14.352
744	84.57	14.452	820	84.558	14.315	896	78.067	13.323	972	84.027	14.429
746	84.86	14.504	822	84.291	14.281	898	78.014	13.342	974	84.339	14.512
748	85.14	14.548	824	84.026	14.228	900	78.039	13.356	976	84.659	14.607
750	85.392	14.587	826	83.786	14.177	902	78.033	13.364	978	85.204	14.704
752	85.66	14.622	828	83.516	14.118	904	78.082	13.37	980	84.885	14.674
754	85.926	14.646	830	83.248	14.075	906	78.083	13.393			
756	86.122	14.658	832	82.988	14.041	908	78.126	13.401			
758	86.341	14.691	834	82.669	13.999	910	78.149	13.4			

ผลการวัดค่าการส่งผ่านแสงของกระจก ZnO:B ที่อุณหภูมิ 160°C ช่วงความยาวคลื่น 380-980 nm.

Wavelength (nm.)	TT(%)	TD(%)									
380	41.181	-4.037	456	81.122	18.967	532	86.914	17.586	608	85.537	16.069
382	43.399	-1.189	458	81.66	19.018	534	87.099	17.565	610	85.894	16.119
384	48.826	8.856	460	82.209	19	536	87.311	17.568	612	86.221	16.162
386	58.809	16.489	462	82.759	19.021	538	87.442	17.56	614	86.537	16.201
388	62.202	20.534	464	83.33	19.002	540	87.525	17.501	616	86.845	16.247
390	66.044	21.052	466	83.736	19.014	542	87.553	17.432	618	87.117	16.272
392	68.858	21.59	468	84.119	19.015	544	87.52	17.379	620	87.35	16.287
394	71.063	21.931	470	84.434	19.018	546	87.419	17.313	622	87.572	16.287
396	72.413	22.036	472	84.583	18.955	548	87.299	17.236	624	87.765	16.287
398	73.248	22.079	474	84.712	18.874	550	87.131	17.144	626	87.903	16.275
400	73.833	22.065	476	84.739	18.774	552	86.935	17.056	628	88.019	16.273
402	74.291	22.041	478	84.62	18.652	554	86.666	16.946	630	88.108	16.27
404	74.671	21.996	480	84.425	18.526	556	86.409	16.837	632	88.144	16.25
406	75.194	22.002	482	84.141	18.361	558	86.102	16.765	634	88.181	16.227
408	75.691	21.975	484	83.855	18.204	560	85.728	16.675	636	88.169	16.199
410	76.198	21.951	486	83.546	18.085	562	85.333	16.569	638	88.12	16.16
412	76.852	21.987	488	83.114	17.942	564	84.939	16.43	640	88.052	16.113
414	77.502	22.01	490	82.722	17.809	566	84.597	16.312	642	87.986	16.078
416	78.185	22.003	492	82.357	17.655	568	84.237	16.198	644	87.862	16.033
418	78.908	22.012	494	82.007	17.523	570	83.923	16.09	646	87.726	15.984
420	79.693	21.938	496	81.761	17.437	572	83.621	15.979	648	87.575	15.922
422	80.378	21.475	498	81.617	17.381	574	83.324	15.864	650	87.415	15.854
424	80.928	20.948	500	81.504	17.336	576	83.099	15.776	652	87.21	15.781
426	81.168	20.476	502	81.492	17.299	578	82.9	15.708	654	87.023	15.721
428	81.07	20.383	504	81.63	17.284	580	82.788	15.656	656	86.813	15.663
430	81.049	20.209	506	81.811	17.283	582	82.712	15.608	658	86.578	15.599
432	80.681	19.965	508	82.072	17.309	584	82.661	15.572	660	86.354	15.526
434	80.241	19.709	510	82.415	17.365	586	82.683	15.556	662	86.116	15.458
436	79.787	19.514	512	82.834	17.42	588	82.761	15.556	664	85.859	15.383
438	79.383	19.361	514	83.197	17.456	590	82.893	15.564	666	85.631	15.307
440	79.024	19.174	516	83.665	17.478	592	83.09	15.599	668	85.363	15.234
442	79.015	19.098	518	84.16	17.519	594	83.295	15.639	670	85.108	15.175
444	78.90	18.964	520	84.627	17.549	596	83.557	15.692	672	84.835	15.099
446	79.001	18.933	522	85.080	17.568	598	83.856	15.747	674	84.566	15.021
448	79.276	18.942	524	85.534	17.591	600	84.169	15.804	676	84.303	14.949
450	79.637	18.941	526	85.935	17.627	602	84.526	15.865	678	84.067	14.879
452	80.049	18.909	528	86.267	17.627	604	84.863	15.933	680	83.79	14.797
454	80.556	18.931	530	86.637	17.616	606	85.19	16	682	83.542	14.722

ผลการวัดค่าการส่งผ่านแสงของกระจก ZnO:B ที่อุณหภูมิ 160°C ช่วงความยาวคลื่น 380-980 nm.(ต่อ)

Wavelength (nm.)	TT(%)	TD(%)									
684	83.222	14.637	760	85.911	14.748	836	82.119	14.015	912	78.217	13.425
686	82.959	14.562	762	86.027	14.755	838	81.966	13.995	914	78.182	13.43
688	82.68	14.488	764	86.138	14.764	840	81.761	13.955	916	78.179	13.446
690	82.463	14.44	766	86.243	14.776	842	81.595	13.93	918	78.186	13.46
692	82.248	14.385	768	86.298	14.778	844	81.462	13.892	920	78.213	13.464
694	82.073	14.344	770	86.367	14.772	846	81.298	13.889	922	78.239	13.47
696	81.902	14.301	772	86.405	14.76	848	81.146	13.85	924	78.294	13.485
698	81.766	14.262	774	86.395	14.744	850	81.031	13.805	926	78.359	13.508
700	81.633	14.23	776	86.392	14.731	852	80.87	13.765	928	78.447	13.531
702	81.521	14.196	778	86.364	14.714	854	80.733	13.745	930	78.534	13.548
704	81.444	14.178	780	86.318	14.691	856	80.614	13.743	932	78.675	13.571
706	81.393	14.159	782	86.275	14.674	858	80.448	13.74	934	78.816	13.588
708	81.355	14.151	784	86.22	14.655	860	80.311	13.726	936	78.955	13.602
710	81.367	14.151	786	86.113	14.625	862	80.202	13.693	938	79.074	13.616
712	81.401	14.152	788	86.013	14.596	864	80.083	13.664	940	79.246	13.642
714	81.438	14.16	790	85.892	14.571	866	79.938	13.631	942	79.447	13.668
716	81.526	14.170	792	85.78	14.563	868	79.806	13.605	944	79.686	13.697
718	81.637	14.186	794	85.739	14.597	870	79.666	13.569	946	79.884	13.724
720	81.746	14.193	796	85.674	14.637	872	79.591	13.551	948	80.116	13.776
722	81.891	14.213	798	85.603	14.658	874	79.494	13.536	950	80.328	13.811
724	82.066	14.235	800	85.429	14.623	876	79.367	13.518	952	80.578	13.849
726	82.246	14.271	802	85.211	14.593	878	79.221	13.504	954	80.84	13.883
728	82.458	14.31	804	85.015	14.56	880	79.112	13.512	956	81.079	13.925
730	82.673	14.348	806	84.84	14.516	882	78.991	13.477	958	81.321	13.948
732	82.882	14.376	808	84.64	14.476	884	78.932	13.455	960	81.623	13.995
734	83.124	14.411	810	84.47	14.427	886	78.847	13.438	962	81.857	14.031
736	83.362	14.44	812	84.256	14.38	888	78.799	13.425	964	82.107	14.086
738	83.59	14.474	814	84.057	14.343	890	78.746	13.417	966	82.4	14.153
740	83.846	14.506	816	83.887	14.317	892	78.671	13.42	968	82.681	14.189
742	84.103	14.541	818	83.675	14.291	894	78.639	13.429	970	82.965	14.22
744	84.318	14.567	820	83.475	14.253	896	78.562	13.436	972	83.284	14.287
746	84.576	14.605	822	83.304	14.234	898	78.457	13.447	974	83.6	14.366
748	84.818	14.637	824	83.129	14.203	900	78.42	13.447	976	83.93	14.449
750	85.029	14.664	826	82.982	14.172	902	78.348	13.434	978	84.515	14.537
752	85.249	14.685	828	82.815	14.131	904	78.328	13.43	980	84.142	14.499
754	85.458	14.696	830	82.647	14.101	906	78.269	13.441			
756	85.601	14.701	832	82.494	14.079	908	78.249	13.437			
758	85.764	14.724	834	82.282	14.05	910	78.206	13.422			

ผลการวัดค่าการส่งผ่านแสงของกระจก ZnO:B ที่อุณหภูมิ 180°C ช่วงความยาวคลื่น 380-980 nm.

Wavelength (nm.)	TT(%)	TD(%)									
380	0.066	0.925	456	75.863	23.478	532	80.652	19.227	608	84.012	17.268
382	1.176	10.75	458	75.934	23.271	534	80.53	19.136	610	84.111	17.232
384	18.3	19.737	460	75.917	23.075	536	80.504	19.063	612	84.163	17.176
386	48.599	23.166	462	75.919	22.907	538	80.529	18.991	614	84.184	17.123
388	55.757	25.913	464	75.951	22.732	540	80.626	18.928	616	84.163	17.088
390	58.274	26.998	466	75.917	22.579	542	80.809	18.888	618	84.082	17.023
392	60.315	27.568	468	76.059	22.463	544	81.007	18.891	620	83.952	16.952
394	62.014	27.905	470	76.301	22.385	546	81.215	18.85	622	83.801	16.859
396	63.141	28.053	472	76.587	22.304	548	81.471	18.821	624	83.638	16.78
398	64.077	28.174	474	76.964	22.237	550	81.792	18.782	626	83.443	16.69
400	65.024	28.321	476	77.379	22.171	552	82.128	18.769	628	83.243	16.61
402	66.091	28.411	478	77.723	22.075	554	82.404	18.717	630	83.034	16.538
404	67.123	28.45	480	78.056	21.965	556	82.652	18.666	632	82.83	16.476
406	68.121	28.506	482	78.252	21.847	558	82.863	18.629	634	82.694	16.414
408	68.801	28.416	484	78.434	21.715	560	82.943	18.558	636	82.562	16.358
410	69.212	28.186	486	78.562	21.576	562	82.978	18.469	638	82.446	16.308
412	69.513	27.94	488	78.53	21.399	564	82.952	18.347	640	82.365	16.268
414	69.681	27.683	490	78.502	21.231	566	82.918	18.235	642	82.35	16.247
416	69.759	27.457	492	78.45	21.051	568	82.811	18.106	644	82.363	16.224
418	69.931	27.269	494	78.348	20.893	570	82.693	17.987	646	82.426	16.213
420	70.362	27.113	496	78.294	20.772	572	82.556	17.87	648	82.526	16.195
422	70.998	26.755	498	78.354	20.7	574	82.379	17.741	650	82.649	16.184
424	71.766	26.308	500	78.433	20.614	576	82.232	17.633	652	82.777	16.178
426	72.364	25.957	502	78.586	20.547	578	82.094	17.522	654	82.978	16.195
428	72.665	25.851	504	78.862	20.498	580	82.012	17.438	656	83.178	16.192
430	73.077	25.748	506	79.189	20.449	582	81.965	17.379	658	83.388	16.179
432	73.175	25.474	508	79.517	20.406	584	81.926	17.323	660	83.607	16.178
434	73.105	25.172	510	79.866	20.381	586	81.954	17.288	662	83.82	16.186
436	73.037	24.944	512	80.226	20.358	588	82.025	17.264	664	84.018	16.185
438	73.042	24.718	514	80.489	20.29	590	82.153	17.254	666	84.257	16.172
440	73.083	24.514	516	80.745	20.227	592	82.337	17.254	668	84.422	16.15
442	73.394	24.394	518	80.96	20.134	594	82.525	17.254	670	84.566	16.125
444	73.624	24.221	520	81.033	19.991	596	82.754	17.27	672	84.675	16.084
446	74.001	24.124	522	81.072	19.86	598	82.99	17.266	674	84.759	16.052
448	74.483	24.083	524	81.053	19.76	600	83.225	17.272	676	84.802	16.012
450	74.95	23.952	526	80.959	19.652	602	83.474	17.275	678	84.826	15.956
452	75.358	23.788	528	80.821	19.507	604	83.696	17.281	680	84.772	15.887
454	75.679	23.648	530	80.749	19.365	606	83.869	17.278	682	84.704	15.805

ผลการวัดค่าการส่งผ่านแสงของกระจก ZnO:B ที่อุณหภูมิ 180°C ช่วงความยาวคลื่น 380-980 nm.(ต่อ)

Wavelength (nm.)	TT(%)	TD(%)									
684	84.531	15.704	760	83.998	14.797	836	81.279	14.217	912	78.182	13.448
686	84.349	15.617	762	83.91	14.754	838	81.439	14.255	914	77.967	13.429
688	84.125	15.536	764	83.806	14.716	840	81.548	14.264	916	77.806	13.412
690	83.935	15.452	766	83.686	14.675	842	81.686	14.283	918	77.633	13.406
692	83.711	15.37	768	83.528	14.619	844	81.835	14.298	920	77.476	13.4
694	83.489	15.295	770	83.377	14.569	846	81.94	14.343	922	77.333	13.377
696	83.242	15.227	772	83.185	14.509	848	82.056	14.347	924	77.231	13.371
698	83.033	15.165	774	82.955	14.448	850	82.206	14.338	926	77.14	13.371
700	82.809	15.105	776	82.745	14.382	852	82.299	14.343	928	77.091	13.361
702	82.586	15.043	778	82.516	14.331	854	82.374	14.343	930	77.052	13.354
704	82.4	14.986	780	82.268	14.287	856	82.448	14.346	932	77.056	13.363
706	82.23	14.931	782	82.041	14.25	858	82.45	14.335	934	77.076	13.38
708	82.076	14.89	784	81.829	14.212	860	82.477	14.33	936	77.106	13.376
710	81.969	14.872	786	81.59	14.161	862	82.49	14.291	938	77.152	13.371
712	81.882	14.84	788	81.376	14.115	864	82.476	14.265	940	77.252	13.379
714	81.801	14.815	790	81.141	14.068	866	82.396	14.262	942	77.39	13.381
716	81.781	14.799	792	80.963	14.051	868	82.333	14.28	944	77.557	13.395
718	81.791	14.796	794	80.893	14.074	870	82.247	14.248	946	77.701	13.426
720	81.814	14.777	796	80.826	14.105	872	82.196	14.221	948	77.886	13.441
722	81.882	14.769	798	80.743	14.125	874	82.09	14.194	950	78.049	13.454
724	81.98	14.782	800	80.565	14.093	876	81.949	14.153	952	78.254	13.477
726	82.085	14.802	802	80.399	14.083	878	81.789	14.111	954	78.488	13.527
728	82.237	14.823	804	80.28	14.075	880	81.62	14.064	956	78.737	13.57
730	82.395	14.837	806	80.204	14.056	882	81.41	14	958	78.993	13.59
732	82.543	14.841	808	80.104	14.033	884	81.23	13.941	960	79.293	13.633
734	82.717	14.856	810	80.082	14.035	886	81.053	13.89	962	79.545	13.686
736	82.897	14.879	812	80.067	14.033	888	80.879	13.864	964	79.809	13.715
738	83.069	14.898	814	80.077	14.041	890	80.699	13.835	966	80.112	13.764
740	83.25	14.91	816	80.125	14.064	892	80.472	13.806	968	80.414	13.798
742	83.431	14.914	818	80.162	14.061	894	80.284	13.781	970	80.728	13.825
744	83.56	14.91	820	80.226	14.068	896	80.048	13.775	972	81.053	13.86
746	83.723	14.909	822	80.343	14.091	898	79.786	13.761	974	81.382	13.926
748	83.853	14.904	824	80.436	14.126	900	79.563	13.718	976	81.741	13.974
750	83.939	14.893	826	80.571	14.157	902	79.291	13.643	978	82.448	14.037
752	84.015	14.872	828	80.713	14.17	904	79.066	13.609	980	81.912	13.974
754	84.053	14.846	830	80.845	14.179	906	78.827	13.585			
756	84.036	14.829	832	81.012	14.193	908	78.619	13.544			
758	84.032	14.821	834	81.119	14.204	910	78.378	13.489			

ผลการวัดค่าการส่องผ่านแสงของกระจก ZnO:B ที่อุณหภูมิ 200°C ช่วงความยาวคลื่น 380-980 nm.

Wavelength (nm.)	TT(%)	TD(%)									
380	-380.7	-423.3	456	71.999	20.514	532	78.349	18.559	608	80.01	17.174
382	-347.6	-382.7	458	72.111	20.381	534	78.563	18.551	610	80.048	17.145
384	-190.4	-217.7	460	72.236	20.308	536	78.814	18.546	612	80.145	17.112
386	2.453	-27.33	462	72.432	20.294	538	79.006	18.499	614	80.288	17.106
388	48.614	15.187	464	72.783	20.248	540	79.133	18.437	616	80.476	17.086
390	55.601	21.918	466	73.071	20.098	542	79.213	18.393	618	80.679	17.068
392	57.779	22.74	468	73.362	20.141	544	79.192	18.305	620	80.896	17.07
394	59.609	23.35	470	73.648	20.198	546	79.091	18.181	622	81.134	17.075
396	60.912	23.808	472	73.92	20.155	548	78.987	18.065	624	81.337	17.073
398	62.087	24.21	474	74.256	20.127	550	78.833	17.939	626	81.511	17.06
400	63.163	24.528	476	74.489	20.129	552	78.71	17.805	628	81.665	17.039
402	64.181	24.78	478	74.641	20.105	554	78.557	17.682	630	81.786	17.022
404	65.029	24.942	480	74.758	20.044	556	78.433	17.519	632	81.839	16.998
406	65.922	25.075	482	74.761	19.954	558	78.549	17.609	634	81.874	16.948
408	66.653	25.174	484	74.786	19.914	560	78.808	17.817	636	81.848	16.882
410	67.122	25.205	486	74.931	19.863	562	79.127	18.03	638	81.732	16.808
412	67.613	25.189	488	75.028	19.818	564	79.272	18.062	640	81.569	16.726
414	68.016	25.16	490	75.169	19.781	566	79.487	18.058	642	81.397	16.642
416	68.332	25.047	492	75.357	19.725	568	79.719	18.044	644	81.172	16.536
418	68.907	25.391	494	75.606	19.652	570	79.987	18.046	646	80.932	16.44
420	68.977	24.873	496	75.912	19.608	572	80.274	18.04	648	80.682	16.334
422	67.711	22.683	498	76.2	19.592	574	80.51	18.034	650	80.435	16.221
424	66.288	20.337	500	76.445	19.566	576	80.756	18.013	652	80.171	16.1
426	65.626	19.158	502	76.725	19.558	578	80.94	17.983	654	79.965	15.994
428	66.405	19.677	504	76.967	19.538	580	81.129	17.945	656	79.76	15.898
430	67.02	19.867	506	77.099	19.472	582	81.231	17.911	658	79.574	15.782
432	67.43	19.842	508	77.138	19.391	584	81.273	17.864	660	79.45	15.688
434	67.689	19.756	510	77.184	19.309	586	81.253	17.799	662	79.377	15.608
436	67.94	19.8	512	77.187	19.225	588	81.195	17.74	664	79.342	15.527
438	68.293	19.943	514	77.082	19.119	590	81.076	17.672	666	79.376	15.464
440	68.631	20.017	516	77.093	19.021	592	80.963	17.608	668	79.426	15.395
442	69.229	20.186	518	77.133	18.942	594	80.775	17.543	670	79.528	15.343
444	69.672	20.297	520	77.142	18.869	596	80.602	17.478	672	79.664	15.315
446	70.206	20.382	522	77.218	18.77	598	80.424	17.423	674	79.824	15.291
448	70.771	20.518	524	77.363	18.692	600	80.249	17.354	676	80.014	15.269
450	71.214	20.604	526	77.526	18.618	602	80.128	17.305	678	80.218	15.25
452	71.526	20.608	528	77.733	18.568	604	80.056	17.254	680	80.379	15.199
454	71.798	20.566	530	78.054	18.556	606	80.008	17.22	682	80.653	15.241

ผลการวัดค่าการส่งผ่านแสงของกระจก ZnO:B ที่อุณหภูมิ 200°C ช่วงความยาวคลื่น 380-980 nm.(ต่อ)

Wavelength (nm.)	TT(%)	TD(%)									
684	80.999	15.4	760	80.146	14.171	836	75.912	12.332	912	73.44	12.031
686	81.401	15.573	762	80.279	14.162	838	76.117	12.324	914	73.306	12.062
688	81.646	15.651	764	80.385	14.164	840	76.261	12.332	916	73.223	12.097
690	81.734	15.621	766	80.464	14.167	842	76.426	12.356	918	73.144	12.13
692	81.826	15.618	768	80.49	14.149	844	76.622	12.396	920	73.058	12.164
694	81.892	15.611	770	80.498	14.138	846	76.818	12.402	922	72.988	12.177
696	81.874	15.58	772	80.47	14.117	848	77.015	12.434	924	72.946	12.18
698	81.822	15.527	774	80.375	14.097	850	77.217	12.464	926	72.918	12.182
700	81.728	15.462	776	80.261	14.057	852	77.355	12.499	928	72.912	12.185
702	81.557	15.397	778	80.097	14.004	854	77.477	12.505	930	72.911	12.153
704	81.345	15.323	780	79.901	13.945	856	77.627	12.515	932	72.951	12.113
706	81.123	15.249	782	79.711	13.894	858	77.724	12.528	934	72.988	12.075
708	80.852	15.172	784	79.487	13.82	860	77.809	12.522	936	73.027	12.034
710	80.589	15.093	786	79.186	13.728	862	77.868	12.523	938	73.066	11.975
712	80.312	15.025	788	78.891	13.643	864	77.878	12.516	940	73.142	11.915
714	80.014	14.927	790	78.631	13.575	866	77.857	12.524	942	73.23	11.85
716	79.729	14.843	792	78.277	13.478	868	77.83	12.517	944	73.375	11.784
718	79.461	14.737	794	77.745	13.188	870	77.761	12.493	946	73.49	11.707
720	79.175	14.637	796	77.198	12.857	872	77.684	12.468	948	73.642	11.652
722	78.957	14.565	798	76.833	12.671	874	77.552	12.442	950	73.758	11.612
724	78.768	14.493	800	76.623	12.726	876	77.411	12.441	952	73.899	11.584
726	78.588	14.401	802	76.35	12.69	878	77.246	12.423	954	74.048	11.549
728	78.449	14.338	804	76.129	12.674	880	77.063	12.381	956	74.237	11.51
730	78.343	14.279	806	75.948	12.63	882	76.844	12.313	958	74.423	11.504
732	78.263	14.236	808	75.751	12.587	884	76.633	12.256	960	74.613	11.48
734	78.25	14.208	810	75.615	12.555	886	76.375	12.234	962	74.754	11.426
736	78.277	14.172	812	75.448	12.516	888	76.117	12.189	964	74.9	11.366
738	78.313	14.14	814	75.329	12.465	890	75.856	12.128	966	75.091	11.363
740	78.397	14.129	816	75.242	12.423	892	75.56	12.071	968	75.232	11.337
742	78.513	14.117	818	75.16	12.397	894	75.308	12.051	970	75.366	11.314
744	78.627	14.118	820	75.157	12.372	896	75.058	12.021	972	75.513	11.26
746	78.802	14.125	822	75.199	12.356	898	74.8	12.01	974	75.672	11.21
748	78.991	14.13	824	75.22	12.334	900	74.573	12.008	976	75.802	11.219
750	79.179	14.132	826	75.31	12.333	902	74.314	11.997	978	75.899	11.052
752	79.407	14.133	828	75.401	12.332	904	74.119	11.986	980	76.052	11.396
754	79.628	14.142	830	75.505	12.313	906	73.936	11.972			
756	79.803	14.151	832	75.636	12.325	908	73.769	11.983			
758	79.98	14.165	834	75.745	12.329	910	73.572	12.006			