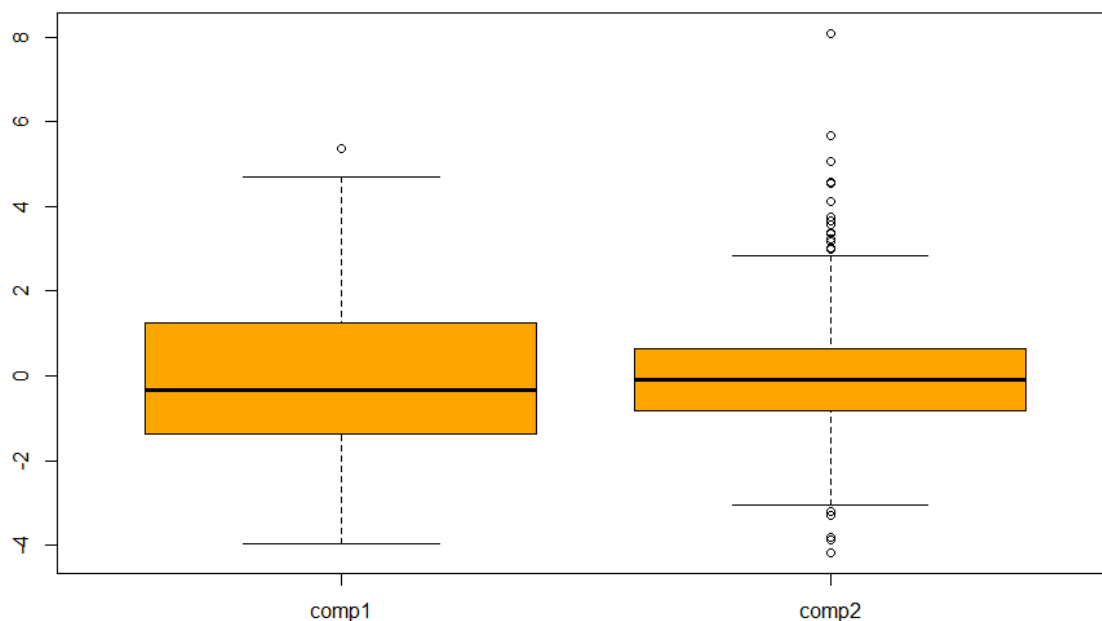


Additional file 1

Outlier analysis

Figure S1: Box-and-whisker plot of the first principal component resulting from breath profile comparison of patients with ILD and other chronic respiratory diagnosis.



Principal component 1 (comp1) and 2 (comp2) result from the partial least squares analysis of breath profiles comparison of patients with ILD and other respiratory diseases. Outliers are marked as dots (n=25).

Table S1: Results of breath analysis comparison without outliers.

Group 1	n=	Group 2	n=	Dataset	AUC	95% CI	Specificity	Sensitivity	Accuracy	NPV	PPV
ILD	101	Asthma – COPD – Lung cancer	98	Training	0.97	0.95-0.99	0.91	0.95	0.93	0.95	0.91
	50		48	Test	0.98	0.96-1.00	0.94	0.94	0.94	0.94	0.94

Results based on 2 principal components. AUC = area under the curve; CI = confidence interval; COPD = chronic obstructive pulmonary disease; ILD = interstitial lung disease.