Solid fuel sample analysis

Data on the fuel:
The inscription on the packaging - „Wood pellets“
Fuel sample presented by: JSC ECOKURAS
Fuel analysis place:
Kaunas University of Technology
Mechanical Engineering and Mechatronics,
Thermal and Nuclear Energy, Department of K.Donelaičio 20, Kaunas
Fuel analysis, the date of: 2013.06.17
Measurements were carried out according to the European standards, adopted in Lithuania:
- moisture measurement CEN / TS 14774-2;
- ash measurement CEN / TS 14775;
- measurement of calorific CEN / TS 14918

Measuring instruments:
1. Electronic scales Electronics Balance TYP AY220
2. Drying oven
3. The heating oven
4. Calorimeter IKA C 4000

Table. Assay

Fuel marking on the package	Wood pellets	
Consumables fuel moisture content, **W**, %		8,5
Dry weight of the fuel ash, $\mathbf{A}_{s.k.}$, %		0,53
Measuring units	kJ/kg	kcal/kg
Dry weight of the upper fuel heating value $Q^{sauso\ k.}_{v}$	20010	4780
Dry weight of the fuel lower heating value $Q^{sauso\ k.}_{a}$	18680	4461
Consumables fuel weight lower calorific value $\mathbf{Q^{n.m.}_{a}}$	**16968**	**4052**

Measurements and calculations carried out by:

Doc. E.Puida