

## Appendix 1: Bulk chemistry of samples Tov13 and 06-19

Sample Number	Fe <sub>2</sub> O <sub>3</sub> %	MnO %	Cr <sub>2</sub> O <sub>3</sub> %	V <sub>2</sub> O <sub>5</sub> %	TiO <sub>2</sub> %	CaO %	K <sub>2</sub> O %	P <sub>2</sub> O <sub>5</sub> %	SiO <sub>2</sub> %	Al <sub>2</sub> O <sub>3</sub> %	MgO %	Na <sub>2</sub> O %	Cl %	S %	L.O.I %	Fe <sup>2+</sup> %	Total %
Tov13	8.64	0.07	0.08	0.03	0.88	0.96	3.74	0.02	62.2	16.4	4.4	1.3	0	0	1.2	4.92	99.92
06-19.	14.1	0.24	0.11	0.04	0.84	1.16	1.59	0.03	54.7	18.3	7.3	1.2	0	0.03	0.3	8.31	99.94

