CLASSIFICATION OF ORDINARY CHONDRITES

Meteorite RUFF (a) M52,5					
PETROGRAPHY					
CHONDRULE OUTLINES Very Distinct Discernible Obscure Non-Existent					
PRESENCE OF CHONDRULE GLASS Yes No - REXL					
PLAGIOCLASE GRAIN SIZE µm (For highly metamorphosed Meteorites)					
STRIATED PYROXENE Everywhere Abundant Rare None					
MATRIX Opaque Recrystallized (Caution: Beware of Weathering)					
CHONDRULE TYPES All Present Some Missing					
WEATHERING Pigments Patches Veins LESS WEATHERE DE DE STER					
METAL Fresh Weathering Rims Islands Replaced					
TROILITE Fresh Weathering Rims Islands Replaced					
OPAQUE GRAIN SIZE Metal μm Troilite μm					
BRECCIATION Obvious Not Obvious					
UNUSUAL FEATURES					
SHOCK CLASSIFICATION					
OLIVINE Sharp Undulatory Planar Fractures Mosaicism Ringwoodite					
PLAGIOCLASE No effects Undulatory Extinction Maskelynite					
SHOCK VEINS No LOCAL MELT POCKETS					
MODES 4,9 Metal 4,7 Troilite 0.2 Weathering Products (all in vol.%)					
No. of Points					
MICROPROBE ANALYSES					
Olivine Fa Avg o Number of analyses					
Low-Ca Pyroxene Fs Avg. & σ Wo Avg. & σ N					
High-Ca Pyroxene (optional) Fs Wo N					

		Q i		
				0.2
	4.9	4.7		1
SIL MT MT	Fe, Ni HT M	FeS HT.HT HT HT	CHROMITE	FEOON
HI HI HI	JAY IIII	Mines Mines		
AHT AHT				
THE THE				
HIT HIT				

297.66 SIL 37.24 Fe, NI 10.4 21.62 FeS 6.0 0.86 FeOOH 0.2