Data collection sheet

Organic carbon / volatile matter (VM)

name:

date:

TEMPERATURE T_{OVEN} = 550 ℃

= 1022 ℉

$$x°C = (1{,}8 * x + 32)\,°F$$

TIME FRAME until m_{VM} is consant

heap	m_{TARE}	m_{DRY}	m_{VM}	VM	organic carbon
[-]	[g]	[g]	[g]	[% DS]	[% DS]

$$volatile\ \ matter = \frac{m_{DRY} - m_{VM}}{m_{DRY} - m_{TARE}} * 100$$

$$organic\ \ carbon = 0{,}58 * volatile\ \ matter$$

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TIME FRAME until m_{VM} is consant

heap	m_{TARE}	m_{DRY}	m_{VM}	VM	organic carbon
[-]	[g]	[g]	[g]	[% DS]	[% DS]
	Step 2		Step 3		
Heap 1 - 1	41,594	42,780	41,890	75,07	43,54
Heap 1 - 2	100,276	101,817	100,651	75,69	43,90
Heap 1 - 3	60,421	61,845	60,712	79,54	46,14
Heap 1 - 4	87,347	88,979	87,710	77,72	45,08
Heap 1 - 5	84,365	85,780	84,690	77,04	44,68

$$volatile\ \ matter = \frac{m_{DRY} - m_{VM}}{m_{DRY} - m_{TARE}} * 100$$

$$organic\ \ carbon = 0{,}58 * volatile\ \ matter$$

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TIME FRAME until m_{VM} is consant

heap	m_{TARE}	m_{DRY}	m_{VM}	VM	Organic Carbon Content
				$= (m_{DRY} - m_{VM})/(m_{DRY} - m_{TARE})$	$= 0{,}58 * VM$
[-]	[g]	[g]	[g]	[% DS]	[% DS]