Three-Step Method

Conservative behaviour

		Properties																						
		OM		Geochemistry												Visible colourimetry								
		TOC	TN	Al	Ca	Fe	K	Mg	Mn	Pb	Si	Sr	Ti	Zn	Zr	L*	a*	b*	C*	h	A1	A2	Gt	$Q_{7/4}$	G_{525}
Range test criterion	Min-Max	●	●	●	●	○	●	●	○	○	●	●	●	●	●	●	●	●	●	○	○	●	○	●	●
	Min-Max ± 10%	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Whiskers	●	●	●	○	○	○	○	○	○	●	○	●	○	●	●	●	●	●	○	○	●	○	●	●
	Hinge	●	●	●	○	○	○	○	○	○	●	○	●	○	○	●	○	●	●	○	○	○	○	●	●
	Mean	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	●	○	○	○	○	○	●	○
	Mean ± SD	●	●	●	○	○	○	○	○	○	○	○	●	○	○	●	○	●	●	○	○	●	○	●	●
	Median	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	●	●

Discriminant Power

	TOC	TN	Al	Ca	Fe	K	Mg	Mn	Pb	Si	Sr	Ti	Zn	Zr	L*	a*	b*	C*	h	A1	A2	Gt	$Q_{7/4}$	G_{525}
Kruskal-Wallis H-test	***	***	***	**	○	***	○	**	·	***	**	·	***	*	***	***	***	***	***	**	**	***	***	***

Selected tracers - *conservative and discriminant properties; ⬢ tracers retained by the DFA*

	TOC	TN	Al	Ca	Fe	K	Mg	Mn	Pb	Si	Sr	Ti	Zn	Zr	L*	a*	b*	C*	h	A1	A2	Gt	$Q_{7/4}$	G_{525}
Range test criterion: Min-Max	⬢	⬢	⬢	⬢	⬡	⬢	⬡	⬡	⬡	⬢	⬢	⬡	⬢	⬢	⬢	⬢	⬢	⬢	⬡	⬡	⬢	⬡	⬢	⬢
Min-Max ± 10%	⬢	⬢	⬢	⬢	⬡	⬢	⬡	⬡	⬡	⬢	⬢	⬡	⬢	⬢	⬢	⬢	⬢	⬢	⬢	⬢	⬢	⬢	⬢	⬢
Whiskers	⬢	⬢	⬢	⬡	⬡	⬡	⬡	⬡	⬡	⬢	⬡	⬡	⬡	⬢	⬢	⬢	⬢	⬢	⬡	⬡	⬢	⬡	⬢	⬢
Hinge	⬢	⬢	⬢	⬡	⬡	⬡	⬡	⬡	⬡	⬢	⬡	⬡	⬡	⬡	⬢	⬡	⬢	⬢	⬡	⬡	⬡	⬡	⬢	⬢
Mean	⬡	⬢	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬢	⬡	⬡	⬡	⬡	⬡	⬢	⬡
Mean ± SD	⬢	⬢	⬢	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬢	⬡	⬢	⬢	⬡	⬡	⬢	⬡	⬢	⬢
Median	⬢	⬢	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬡	⬢	⬢