

Solvent Suppression (wsES.PU)

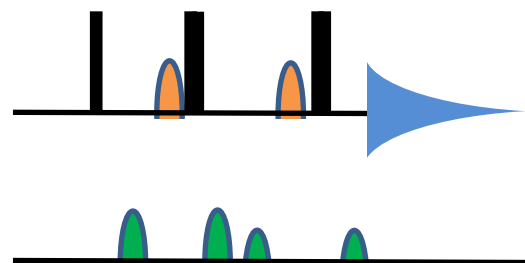
Parameters to be optimized

o1p - The position of the resonance to be suppressed.

spnam1 - The name of the selective inversion pulse.

spw1 - The power of the shaped pulse in watts.

p12 - The duration of the 180 degree pulse in microseconds.



	o1p*	spnam1	p1	spw1**	p12**
A1	4.68	Gaus1_180r.1000	default	0.00115	2400
				0.0046	1200
A2	4.68	Gaus1_180r.1000	default	0.0072	2400
				0.0288	1200
A3	4.68	Gaus1_180r.1000	default	0.0042	2400
				0.018	1200
NB3	4.68	Gaus1_180r.1000	default	0.0055	2400
				0.022	1200
NB3/salty	4.68	Gaus1_180r.1000	16.5	0.0059	2400
			16.5	0.0236	1200

* Will be different if not water or if pH or temperature are changed.

** A lower spw1 and shorter p12 will suppress a wider bandwidth of frequencies.

References

T. L. Hwang and A. J. Shaka. Water Suppression That Works. Excitation Sculpting Using Arbitrary Waveforms and Pulsed Field Gradients. *J. Magn. Reson. Ser.A* 112, 1995:275-279

Carrieri D, McNeely K, De Roo A, Bennette N, Pelczer I, Dismukes GC; Identification and quantification of water-soluble metabolites by cryoprobe-assisted nuclear magnetic resonance spectroscopy applied to microbial fermentation *Magn. Reson, Chem.*, (special issue on NMR-based mixture analysis) 47-S1(2009)S138-S146