

DE LA RECHERCHE À L'INDUSTRIE



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CONDITIONING SEQUENCE FOR ESS 704 MHZ COUPLER

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Thibault Hamelin

CONDITIONING SEQUENCE

Steps	RF pulse length (ms)	RF pulse repeat rate (Hz)	Duty cycle (%)	Incident power range (kW)
SW-S01	0.05	1	0.005	15-1100
SW-S02	0.1	1	0.01	15-1100
SW-S03	0.2	1	0.02	15-1100
SW-S04	0.3	1	0.03	15-1100
SW-S05	0.4	1	0.04	15-1100
SW-S06	0.5	1	0.05	15-1100
SW-S07	0.5	2	0.1	15-1100
SW-S08	0.5	4	0.2	15-1100
SW-S09	0.5	8	0.4	15-1100
SW-S10	0.5	14	0.7	15-1100
SW-L01	0.8	14		15-300
SW-L02	1.5	14		15-300
SW-L03	2.5	14		15-300
SW-L04	3.0	14		15-300
SW-L05	3.6	14		15-300

Parameter	Value	Comment
Vacuum upper limit (soft limit)	$2.5 \cdot 10^{-7}$ mbar	Decrease of the RF power (same step -> 1 kW/s)
Vacuum upper limit (hard limit [TPG300])	$1.0 \cdot 10^{-6}$ mbar	Stop of the RF - Decrease of the RF power (same step -> 1 kW/s)
Vacuum lower limit	$2.5 \cdot 10^{-7}$ mbar	
RF power step	1 kW	
RF power step duration	1 s	